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| CURRICULUM VITAE | DSCN1119 - Copy - Copy |
| NamePlace and Date of Birth | :: | Rachmawan BudiartoYogyakarta, September 23rd, 1971 |

**Summary**

Since 2005/2006 he gives various topics in energy: renewable energy, energy policy, energy economics in undergraduate in 4 programs in Faculty of Engineering, Faculty of Economics and Business, other 3 post-graduates programs.

In period of 2005 - 2018 he was/is involved in at least 48 programs in 60 sites of hydropower, solar energy, bioenergy, geothermal, ocean energy, hybrid energy, green building, energy audit for industry, natural gas, and guidelines for development of nuclear power plant in Indonesia. In renewable energy and sustainable development, he was/is involved in programs funded by international sources (Korindo - South Korea, GTZ/GIZ - Germany, JICA - Japan, SIDA – Sweden, USAID - United States, MCAI – United States, Non Aligned Movement – Centre for South-South Technical Coop (NAM CSSTC), Shizuoka University – Japan, Australia - Indonesia Centre (AIC), SGP – UNDP and Erasmus+.

Since July 2017 he is director of Centre for Development of Sustainable Region which is collaborative centre for research managing 8 universities in Indonesia and USA. Since November 2017 he is deputy director of Directorate of Community Service UGM. Since April 2015 he is a member of Evaluation and Accreditation Committee - IABEE (Indonesia Accreditation Board for Engineering Education). As a manager for Small and Medium Enterprise (SME) Development Program in Institute for Research and Community Services (LPPM) UGM (2006 – 2012) and as a member of executive board in Development Agency for Technology and Innovation Yogyakarta (BPTIY) (1999 – 2008) he provided technopreneurship services, including financial support, for more than 1000 SMEs, especially in Yogyakarta and Central Java. He was involved in programs of green economy and energy policy of Regional Development Planning Board and Ministry of National Development Planning (Bappenas). Since 2011 he is active as trainer for new and renewable energy training centre of Ministry of Energy and Mineral Resources. In 2009 - 2012 he was active in disaster mitigation activities in LPPM UGM and Indonesian National Board for Disaster Management (BNPB).

Since 2011 he is single/main author in three books and co-author in one buku. In 2012 his team was awarded the Regional Centre of Expertise Recognition Award of United Nations University for "Preparing Green Economics Through Synergy Among Courses in Engineering Physics, Gadjah Mada University"

He got also experience from traveling to 291 towns and cities in 24 countries, including 33 provinces in Indonesia. During 2009 - 2018 he became a team leader in 19 programs (renewable energy, energy audit, green building, sensors/instrumentation and defense).

**Ringkasan**

Sejak 2005/2006 ia memberi kuliah, antara lain konservasi energi, rekayasi energi angin, rekayasa energi air, pengantar teknologi energi terbarukan, dan kebijakan energi (berubah menjadi integrasi energi terbarukan), ekonomi energi di 4 program studi S1 di Fakultas Teknik dan Fakultas Ekonomika dan Bisnis serta di 3 program studi S2 di UGM.

Dalam periode 2005 - 2018 ia pernah/sedang terlibat di paling tidak 48 program di 60 lokasi pembangkit listrik tenaga air, teknologi energi matahari, teknologi energi bio, teknologi panas bumi, energi laut, teknologi energi hibrid, bangunan hijau, audit energi untuk industri, gas alam, dan panduan pembangunan PLTA di Indonesia. Dalam bidang energi terbarukan dan pembangunan berkelanjutan, ia pernah/sedang terlibat di berbagai program yang didanai berbagai sumber internasional (Korindo – Korea Selatan, GTZ/GIZ - Jerman, JICA - Jepang, SIDA – Swedia, USAID – Amerika Serikat, MCAI – Amerika Serikat, Non Aligned Movement – Centre for South-South Technical Coop (NAM CSSTC), Shizuoka University – Jepang, Australia - Indonesia Centre (AIC), SGP – UNDP dan Erasmus+.

Sejak Juli 2017 sebagai direktur Centre for Development of Sustainable Region yang merupakan pusat kolaborasi riset 8 perguruan tinggi di Indonesia dan Amerika Serikat. Sejak November 2017 menjadi sekretaris Direktorat Pengabdian kepada Masyarakat UGM. Sejak April 2015 ia menjadi anggota Evaluation and Accreditation Committee - IABEE (Indonesia Accreditation Board for Engineering Education). Saat sebagai manajer program pengembangan UMKM di LPPM UGM (2006 – 2012) dan pengurus Badan Pengembangan Teknologi dan Inovasi Yogyakarta (BPTIY) (1999 – 2008) ia memberi layanan technopreneurship, termasuk layanan dukungan keuangan, bagi lebih dari 1000 UMKM, utamanya di DIY dan Jawa Tengah. Ia aktif di berbagai program ekonomi hijau dan kebijakan energi Bappenas. Sejak 2011 ia aktif sebagai pelatih di Pusdiklat Energi Baru dan Terbarukan ESDM. Periode 2009 - 2012 ia aktif di program mitigasi bencana alam di LPPM UGM dan Badan Nasional Penanggulangan Bencana (BNPB).

Sejak tahun 2011 menjadi penulis tunggal/penulis pertama dalam tiga buku dan co-author dalam satu buku. Tahun 2012 bersama tim ia mendapat penghargaan the Regional Centre of Expertise Recognition Award of United Nations University berkat pengembangan metoda pengajaran "Preparing Green Economics Through Synergy Among Courses in Engineering Physics, Gadjah Mada University".

Ia mendapat tambahan pengalaman dari traveling-nya ke 291 kota besar/kecil di 24 negara, termasuk 33 provinsi di Indonesia. Dalam periode 2009 - 2018 ia menjadi ketua tim dalam 19 program (energi terbarukan, audit energi, green building, sensor/instrumentasi dan hankam).

**Language**

English, German, Arabic (in reading), Indonesian, Javanese

**Education Record**

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| 2010 - 2016 1996 – 19981990 – 19951987 – 19901984 – 19871978 – 1984  | :::::: | Doctor, Mechanical Engineering Fac. of Engineering, Universitas Gadjah Mada Master of Engineering (cum laude, in Coastal Engineering),Post – graduate program, Universitas Gadjah Mada, Yogyakarta – IndonesiaDept. of Civil Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta – IndonesiaSenior High School, SMA 1, Yogyakarta – IndonesiaJunior High School, SMP 8, Yogyakarta – IndonesiaElementary School, SDN Ungaran III, Yogyakarta – Indonesia  |

**Non- formal Education**

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| 1991 – 1993 | : | Islamic Boarding School “Budi Mulia”, Yogyakarta |

**Employment/Organizational Record**

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| Aug 1998 – ....Nov 2017 - …March 2019 - …Oct 2017 - …Jul 2017 - …April 2010 – March 2018Sep 2016 – Oct 2017 Aug 2016 - …Oct 2011 – Nov 2015Dec 2009 – Nov 2014April 2007 – Nov 2009Jan 2007 – March 2009Nov 2006 – Dec 2012July 2006 – March 2007Oct 2000 – May 2005 Nov 1999 - 2008May – Sept 1999Sept 1998 – May 19991991 – 19961993 – 19951991 – 19951988 – 1989 | :::::::::::::::::::::: | Lecturer, Dept of Engineering Physics, Universitas Gadjah Mada, Yogyakarta – IndonesiaDeputy Director, Directorate of Community Service, Universitas Gadjah MadaGreenship Professional, Green Building Council IndonesiaFounder, Reta Consulting Indonesia, JakartaDirector, Centre for Development of Sustainable Region, Sustainable Higher Education Research Alliances, USAID – Ministry of Research and Higher EducationCoord. Of Dev. Of Hydropower, Geothermal-, Solar-, Wind-, and Nuclear Energy, Centre for Energy Studies, Universitas Gadjah Mada, YogyakartaManager of Wisdom Park, UGM Residence, Universitas Gadjah MadaMember, Expert Board, Center for Economic Democracy Studies, Universitas Gadjah MadaHead, Dept. Of Inter-Institutions Relation, National Executive Board of Purna Paskibraka Indonesia Member, Executive Board - Dept. Of Community Development, Universitas Gadjah Mada Alumni Community (KAGAMA) 2009 - 2014Vice Head, Dept of Engineering Physics, Universitas Gadjah Mada, Yogyakarta – IndonesiaVice Head, Industrial Safety Engineering Master Program Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta – IndonesiaCoordinator/Manager, Small and Medium Entreprise Development Program, Institute of Research and Community Services (IRCS), Universitas Gadjah Mada, Yogyakarta – IndonesiaMember Of Executive Board on Students, Alumni and Community Service, Dept of Engineering Physics, Universitas Gadjah Mada, Yogyakarta – IndonesiaDoctoral Researcher, Institute of Water Resources Management and Rural Engineering, Universitaet Karlsruhe – Germany on 1) 3D computational fluid dynamics and 2) energy policy with special emphasize on renewable tech.Secretary, Yogyakarta Technology and Innovation Development Board, Yogyakarta - IndonesiaMember of Executive Board, Dept. of Physics Engineering, Universitas Gadjah Mada, Yogyakarta - IndonesiaAssistance of Director, Academy of Information and Computer Management “ASTER“, Yogyakarta – IndonesiaInstructor, Realia Indonesian Language School, Yogyakarta – Indonesia Chairman, “Purna Paskibraka Indonesia” Organization in Yogyakarta RegionFounder and Member of Executive Board, Group on Study and Implementation of Islam “KSAI Al-Uswah”, Yogyakarta – IndonesiaChairman, Student Organization (OSIS), Senior High School, SMA 1, Yogyakarta – Indonesia |

**Professional Association**

1. Member, Persatuan Insinyur Indonesia (PII – Indonesia Engineer Association)
2. Greenship Professional, Green Building Council Indonesia (GBCI)

**Award and Outstanding Achievement**

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| 20122000199819891988  | ::::: | United Nations University – RCE Recognition Award for “Preparing Green Economics Through Synergy Among Courses in Engineering Physics Universitas Gadjah Mada”DAAD Germany Scholarship (2000 – 2004)Cum laude in Coastal Engineering, Postgraduate program, Universitas Gadjah Mada, Yogyakarta – IndonesiaYogyakartas 2nd Best Senior High School (“Pelajar Teladan DIY ke-2”) Member, National Flag-Hoisting Team, (Paskibraka Nasional) |

**Professional Services on Energy**

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| Feb 2019 - ongoingSep 2018 – July 2019Apr – Nov 2018Feb – Nov 2017Jul – Sep 2017April 2016 – Dec 2017Sep – Des 2016Jul – Sep 2016Jun – Aug 2016May – Nov 2016Feb - Nov 2016Feb – Nov 2016Feb – Dec 2016Okt 2015 – Mar 2016Sep - Dec 2015Jul - Dec 2015May - Nov 2015Feb - Nov 2015Feb - Nov 2015Oct 2014Aug 2014April – Dec 2014Feb – Dec 2014Feb – Aug 2014Feb 2014 - 2016Jan – Feb 2014Nov 2013Aug – Oct 2013May 2013 - ongoingJun – Nov 2013Juli – Aug 2013Feb – Aug 2013Jan – Dec 2013Nov – Dec 2012Oct – Dec 2012Oct – Dec 2012Aug 2012Jan – Dec 2012Dec 2011 - Apr 2012Mar 2011 – Jan 2012Nov – Dec 2011Aug – Des 2011 | :::::::::::::::::::::::::::::::::::::::::: | Team Member, Mastering Energy Supply for Isolated Areas (MESfIA) Erasmus+ teamPIC and Expert team member, Social and Technical Study on Renewable Energy, UGM and SGP/UNDPTeam leader, Photovoltaics for Fisheries Facilities, Pemprov PapuaTeam member, Renewable Energy Based Smart Micro Grid, ITB - UGM - IPB, Penelitian Unggulan Strategis Nasional (PUNAS), Dir. Of Higher Education, Min. Of Higher Education and Research and Technology, Australia - Indonesia Centre (AIC)Team leader, Energy Audit in Oil Storage Facility – Pertamina Medan, Centre for Energy Studies UGMExpert team, Increasing of Poor Household Income Through Green Business Practices Supported by Renewable Energy, MCAI – USA, Consortium Lakpesdam NU - PUSTEK UGM - PSE UGM - CCES Indonesia, Jambi and West Sumatera Member, Dev. Of Directory to Dev. Small and Outer Islands 2016, Fac. Of Animal Science UGM, - Kementerian Desa, Pembangunan Daerah Tertinggal, dan TransmigrasiTeam leader, Energy Audit in LPG Station – Pertamina Binjai, Centre for Energy Studies UGMTeam member, Guideline Development, Assessment, Industrial Award, Gov. of Boyolali Central JavaExpert, Planning of Strategy and Program on Energy and Mineral Resources, Regional Development Planning Agency (Bappeda) YogyakartaDev. Of Measurement Device and Detail Standard Operating Procedure (SOP) For Greenship Dev. Of Green Building, Insgreeb, PUPT Grant, Dir. Higher Education, Min. of Res., Tech and Higher Education Team member, Renewable Energy Based Smart Micro Grid, ITB - UGM - IPB, Penelitian Unggulan Strategis Nasional (PUNAS), Dir. Of Higher Education, Min. Of Higher Education and Research and Technology, Australia - Indonesia Centre (AIC)Team Member, Development of Bio Powerplant Toward Energy Self Sufficient and Environmental Friendly Fruit Market, Inovative-Productive Research Grant (RISPRO) LPDP, Indonesian Ministry of FinanceTeam Member, Study of Positioning of PLN in Government Concept of Domestic Gas Supply Aggregator, Centre for Energy Studies – PT PLNTeam leader, Dev. Of Photovoltaics-Based Water Supply System in Nyamuk Island, Karimunjawa, UGMTeam leader/member, Dev. Of Photovoltaics System (10 kWp) and Energy Monitoring System in Universitas Gadjah Mada (Student Dormitory and Central Library), UGM - WIKAExpert, Planning of Strategy and Program on Energy and Mineral Resources, Regional Development Planning Agency (Bappeda) YogyakartaTeam member, Optimization of Universitas Gadjah Mada Energy System to Support Yogyakarta as Smart and Green City, Min. Of Higher Education and Research and Technology, Australia - Indonesia Centre (AIC)Team member, Renewable Energy Based Smart Micro Grid, ITB - UGM - IPB, Penelitian Unggulan Strategis Nasional (PUNAS), Dir. Of Higher Education, Min. Of Higher Education and Research and Technology, Australia - Indonesia Centre (AIC)Team member, Study on Scenarios of Energy Demand in Transportation Sector 2015-2025, R&D of Indonesian Ministry of TransportationTeam Leader, Verification on Energy Audit, Pertamina Fuel Installation Rewulu, Centre for Energy Research UGMTeam Leader, Development of Clean Energy Technology and Local Institution as Comprehensive Scheme in Karimunjawa, ICED-USAIDTeam Member, Development of Bio Powerplant Toward Energy Self Sufficient and Environmental Friendly Fruit Market (cap: 4 tons/day), Inovative-Productive Research Grant (RISPRO) LPDP, Indonesian Ministry of FinanceExpert, Planning of Strategy and Program on Energy and Mineral Resources, Regional Development Planning Agency (Bappeda) YogyakartaUGM Team Manager, Collaboration in strengthening the community participation on rural electrification with renewable energy, EnDev GIZ – Centre for Energy Studies UGMExpert, Evaluation of rural electrification programs in Indonesiawith focus on renewable energies, LCORE-INDO, GIZ - JermanTeam member, Green Prosperity Program, BappenasTeam Leader, Energy and Preliminary Greenship Audit, Pertamina Fuel Installation Rewulu, Centre for Energy Research UGMMember, Team of INSISTS (Indonesia Sweden Initiative for Sustainable Energy Solution), Fac of Engineering, Yogyakarta and Stockholm - SwedenMember, Dev. of Integrated Smart and Green Building Research Group, Yogyakarta and Taipeh TaiwanExpert, Roadmap of Renewable Energy Development, Regional Development Planning Agency (Bappeda) Gunung Kidul YogyakartaExpert, Planning of Strategy and Program on Energy and Mineral Resources, Regional Development Planning Agency (Bappeda) YogyakartaPIC, Dev. of Renewable Energy Industry (Solar) Based on Local Competence in Gunung Kidul and Bantul - Yogyakarta, Grant of PHK-I Dir. Gen. Of Higher Education – Centre for Energy Studies UGMTeam coordinator, Pre Feasibility Study on Use of Renewable Energy Technology in Tanjung Jati B Coal Powerplant JeparaMember, Team of Developing Network and Facilitation for Energy Research, Yogyakarta and Masdar Institute Abu Dhabi, CES & IRCS UGMTeam management, Front-end engineering design (FEED) for Geothermal Powerplant in Karaha West Java – Pertamina Geothermal and Centre for Energy Study UGMTeam Leader, Verification on Energy Audit of Pertamina Fuel Installation Rewulu, Centre for Energy Research GMUPIC, Dev. of Renewable Energy Industry (Solar) Based on Local Competence in Gunung Kidul and Bantul - Yogyakarta, Grant of PHK-I Dir. Gen. Of Higher Education – Centre for Energy Studies UGMTeam Leader, Green Rest Area Design, Jakarta – Cikampek Toll Road Member, Management Team for Hybrid Energy Area in Bantul Yogyakarta, Ministry of Research and TechnologyExpert, Feasibility Study on PV Based Water Supply System, Gov. of Lembata, NTTExpert, Guidline for Development od Renewable Energy in Yogyakarta, Pemprov DIY |
| Jun – Nov 2011Apr 2011 Feb – Aug 2011Feb – Aug 2011Jan – Des 2011Sept – Nov 2010Aug – Nov 2010June – Nov 2010June – Nov 2010June – Nov 2010Feb – July 2010Jan – Okt 2010Nov 2009 – Mar 2010Nov – Des 2009Oct – Dec 2009Sep – March 2010April – Oct 2009April – Oct 2009April – Oct 2009Nov 2008 Jul 2008 – Feb 2009Jul – Aug 2008April 2008Jan – May 2008Jan – Feb 2008Jan – Feb 2008Nov 2007 – Feb 2008Jun 2007 – Jan 2008Feb – Nov 2007Jan 2007Dec 2006 – Jan 2007 Sept - Dec 2005 Aug, 1998 | ::::::::::::::::::::::::::::::::: | Expert, Team on Design and Instalation of Hydram System in Disadvantaged Village in Manggarai Timur East Nusa Tenggara, Ministry of Dev. of Least Developed Area – IRCS UGMContributor, Guideline for Dev. of Biogas Based Energy Independent Village, Coord Ministry on Economics Expert, Team on Risk Analysis on Dev. of Floating Storage and Regasification Unit, Pertamina – Centre for Energy Studies UGMExpert, Team on Feasibility Study on PLTM (Minihydro Powerplants) Isal 3, Detail Engineering Design of PLTM Rumahkay 3 (2 x 2000 kW) Central Maluku, PLN - Surveyor IndonesiaPIC, Dev. of Renewable Energy Industry (Wind) Based on Local Competence in Gunung Kidul and Bantul - Yogyakarta, Grant of PHK-I Dir. Gen. Of Higher Education – Centre for Energy Studies UGMExpert, Team on Formulation of Academic Guidline For Draft of Regional Regulation on Energy, Bappeda DIYLeader, Team on Design and Application of PV Based Water Pump System, Lembata – East Nusa Tenggara,Hilink Program, Dir. Gen. Of Higher Education, 2010Expert, Design and Instalation of Hydram Pump System in Disadvantaged Areas, Dairi North Sumatera, Ministry of Dev. of Least Developed Area – IRCS UGMMember, Team for Development of Laboratory for Energy Independent Village in Gorontalo – Provincial Gov. of GorontaloMember, Team on Study for Energy Security in Asia Pacific – Its Implication to Indonesia, Min. for Foreign Affair – Center for Energy Studies, Universitas Gadjah MadaLeader, Team on Comprehensive Study On Small Hydropower For Rural Electrification, JICA - IRCS UGMMember, Team on Dev. Of An Appropriate Water Filter For Clean Water Supply in Rural Areas, Dept. Of Eng. Physics UGM – iBoP Asia, Ateneo School of Government FilipinaExpert, Detail Engineering Design of Sinamar Hydropower, West Sumatera, Center for Energy Studies, Universitas Gadjah MadaExpert, Feasibility Study on Sea Current and Wave Energy, Ternate and Morotai North Maluku, Center for Energy Studies, Universitas Gadjah MadaExpert, Feasibility Study on Microhydro Powerplants in Wai Larik, Wai Wau, Wai Mokel Flores - East Nusa Tenggara, Center for Energy Studies, Universitas Gadjah MadaExpert, Design on PLTM (Minihydro Powerplants) Kalibeber, PLTM Leksono (Wonosobo – Central Java) dan PLTM Purbasari (Purbalingga – Central Java), Indonesia Power Mrica – Institute of Research and Community Services (IRCS) UGM Grantee, Design on Integration Between Design and Manufactur Facility of Mini Gas Turbine for Biomass Waste, Rusnas Grant, Dir. Gen. Of Higher EducationGrantee, Design on Moving Blade Water Wheel, Rusnas Grant, Dir. Gen. Of Higher Education Grantee, Design on Vertical Axis Water Wheel for Irrigation Channel, Rusnas Grant, Dir. Gen. Of Higher EducationExpert, Feasibility Study of Renewable Energy and Clean Water Infrastructure, Sebuli Relocation Program, Senakin Coal Mining South Kalimantan, PT Arutmin Indonesia - Center for Energy Studies, UGMExpert, Evaluation on Design of PLTM (Minihydro Powerplant): PLTM Menarung – Central Kalimantan (36,5 kW), PLTM Purukcahu – Central Kalimantan (232,6 kW), PLTM Malewa – Poso (235,6 kW), PLTM Polanggua – Gorontalo (108,6 kW), PLTM Mohiyolo – Gorontalo (351,9 kW), PLTM Wae Lega – Manggarai Flores (2430 kW), Center for Energy Studies, Universitas Gadjah MadaCoordinator, Team on Survey and Design of Alternative Energy Utilization Infrastructure for Energy Endurance Strengthening of Micro, Small and Medium Enterprises in Boyolali, IRCS Universitas Gadjah Mada – Boyolali Local Government.Team Leader, Detail Engineering Design PLTMH (Microhydro Powerplant) Siwuluh I (250 kW) and PLTMH Blimbing (70 kW), Banjarnegara - Central JavaExpert, Market Potential Mapping and Marketing Strategy for Photovoltaic, Biofuel and Wind Turbine Industry, Physics Engineering Dept. Universitas Gadjah Mada - PT Korindo Heavy Industry JakartaMember, Curriculum/Syllabus Evaluation Team, Master Of Engineering System - Microhydro Concentration, Faculty of Engineering, Universitas Gadjah MadaExpert, Design on System for Utilizing Waste of Palm Oil Industry as Renewable Energy Resources, Central Kalimantan, Center for Energy Studies, Universitas Gadjah MadaExpert, Evaluation on Design Of PLTM (Minihydro Powerplant): PLTM Sita (836 kW), PLTM Ndungga (1691 kW), PLTM Masabewa (1088 kW), PLTM Pekatan (457 kW) dan PLTM Santong (841 kW), NTT - NTB, Center for Energy Studies, Universitas Gadjah MadaMember, Renewable Energy Development Team, PLN Of North Sulawesi –Central Sulawesi -Gorontalo and Faculty of Engineering, Universitas Gadjah MadaTeam Member, Study Of Economical Impact Nuclear Power Plants Operation in Muria Peninsula, BATAN – Dept. Of Physics Engineering, Universitas Gadjah MadaExpert, Focus Group Discussion, Development and Revitalization of Implementation Strategy of National Energy Policy by Sector, Energy and Mineral Resources Dept. - Gama Cendekia Universitas Gadjah MadaExpert, Feasibility Study On Microhydro Power Plant Tumbang Atei (34 kW) – Katingan and Bonoh (31 kW) - Murung Raya, Central Kalimantan, Center for Energy Studies, Universitas Gadjah MadaExpert, Development of Safety Standard on Flood Hazard for Nuclear Power Plants on Coastal and River Sites, Nuclear Energy Regulatory Agency, JakartaResearcher, Survey of River Flow Power Plant, Brantas River – Eastern Java, Center for Energy Studies, Universitas Gadjah Mada |

**Professional Services on Military and Defense Technology**

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| Jan 2009 – Oct 2010April – Oct 2009April – Oct 2009 | ::: | Team Leader, Integrated System of Production and Test of Double Base Solid Rocket Propelant Based on Jathropha Oil, Grant for Applied Research, Research Grant of Min. of Research and TechnologyTeam Leader, Mechanical Gyroscope for Torpedo dan Smart Bomb Navigation System, Rusnas Research Grant of Dir. Gen. Of Higher EducationGrantee, Design on Rocket Static Test Facility Based on Guidence and Control System (GCS), Rusnas Research Grant of Dir. Gen. Of Higher Education  |

**Professional Service on Micro, Small and Medium Enterprise Development and Regional Economic Development**

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| Jun – Aug 2014Sept 2011 – Des 2012 Apr 2010 – Des 2012 Apr – Sept 2012Feb 2012Apr 2011 – Dec 2011Oct 2009 – March 2010July 2009April 2009March 2009Jan – Oct 2009 March 2007 - Feb 2009Jan 2009Dec 2008 – Apr 2009Nov 2008Aug 2008July – Aug 2008June – Dec 2008May 2008Oct – Nov 2007Oct 2007July – Aug 2007 Nov 2006Nov – Dec 2006Aug – Oct 1998 | ::::::::::::::::::::::::: | Expert, Guideline on Cleaner production in Rattan Industry, Perkumpulan Untuk Peningkatan Usaha Kecil (PUPUK) BandungMember, Joint Secretariat of the Pertamina Comprehensive Approach on Village Development, Pertamina – Ministry for Disadvantaged Area Development – UGM (Sorong, Bima)Member, Coord. Team of Regional Economic Development (RED – STEER), Bappenas – GTZ/GIZ Team member, Integration Data System Development for Use of Biological Resources, Ministry for Disadvantaged Area DevelopmentCoordinator, Business Game, Telkom – IRCS UGMTeam member, Increasing Investment for Disadvantaged Area, Ministry for Disadvantaged Area DevelopmentTeam Member, Study on Policy of SME Development in Indonesia, JICA – IRCS UGMPresenter, Seminar on Development of Small and Medium Enterprise Based on Agricultural Product, Training Centre, Dept. of Internal Affairs Yogyakarta RegionTeam Leader, Seminar and Exhibition on Alternative Energy for SME Development in Yogyakarta, BTC-BPTIYPresenter, National Seminar on Students Entrepreneurship, Post Graduate Students Organization UGM, YogyakartaTeam Secretary, ISO 9001:2008 for SME Development Program, IRCS UGMTrainer, Training on Appropriate Technology For Islamic Boarding - TEKPAT MENARA, Hifzul Bi'ah Islamic Boarding Cangkringan, Sleman YogyakartaTeam Member, Feasibility Assessment Team for Metal Industry in Klaten, Ministry of Research and Technology – BTC BPTIYTeam Member, Technology Injection for CV. Exotic Tropical Rainforest, Coastal Women's Group "Niswati Bahari", and Tofu Small Industry “Ngudi Lestari” , Ministry of Research and Technology – BTC BPTIYPresenter, Training on Capital Management for Cooperatives, Office of Industry, Trade and Cooperation, YogyakartaOrganizer, SME exhibition, Business Dialog, Workshop on SME Product Marketing, Research Week UGM 2008Coordinator, Survey on Renewable Energy Technology for SME in Boyolali, Office of Industry, Trade and Cooperation, District Boyolali – KKN PPM UGMTeam Leader, Innovation Guide for SME Development IRCS UGMPresenter, Improving Performance of Financial Support for SME based on Corporate Social Responsibility, IRCS UGMOrganizer, Exhibition of SME Product, Research Week UGM 2007 Presenter, Workshop on Business Plan for SME, Research Week UGM 2007Coordinator, Entrepreneur Live Skill, Ministry of Education - KKN PPM ICRS UGMTrainer, Workshop on SME Development (Emping, Nutt Eggs, Asmat Statues Souvenir), Program SIBERMAS, YogyakartaOrganizer, SME Exhibition and Seminar on Technopreneurship, Research Week UGM 2006Member, Team of Feasibility Study on Yogyakarta Technocentre, Yogyakarta Chamber of Commerce – South Westphalia Hagen/Germany Chamber of Commerce |

**Professional Services on Disaster Management**

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| April 2012Jun 2011 | :: | Team member, Site Assessment on Disaster Response in Banda Aceh, Calang and Meulaboh, LPPM UGMExpert, Research Fasilitation Workshop, BNPB |
| Nov 2010Okt – Nov 2010Nov – Des 2009 | ::: | Member, Asisstance Team, Plan on Management of Disaster in Local Area, National Agency for Disaster Management (BNPB)Logistics Coord., Disaster Response Unit UGMTeam Leader, Dev. of PV Based Power Supply and Recharging Mobile Unit for Disaster Area, Fac. of Engineering, UGM |

**Professional Services on Education**

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| Apr 2015 - ongoingOct 2016Dec 2014Jan – Dec 2010July – Dec 08Aug 07 – Jan 08July – Dec 2006 | ::::::: | Member, Evaluation and Accreditation Committee-IABEE (Indonesia Accreditation Board for Engineering Education)Education for Sustainable Development (ESD) Meeting, Sejahtera Park, RCE Tongyeong, KoreaVisiting Lecturer on Education for Sustainable Development Student Exchange Program, Shizuoka University, JapanGrantee, Technopreneurship Dev. in Renewable Energy Integrated Four Courses Activities, RAMP - Bogor Agriculture Institute Grantee, Deep and Comprehensive Learning Program in Sustainable Energy System trough Integrated Four Courses Activities, Competence Grant PHK A2, Dept. Of Physics Engineering, Universitas Gadjah MadaGrantee, Development of Functional Awareness in Comprehensive Learning Program on Sustainable Energy System trough Synergy between Energy Policy Class and Industrial Management Courses, Competence Grant PHK A2, Dept. Of Physics Engineering, Universitas Gadjah Mada Grantee, Energy Policy Learning Program trough Method of Student Centered Learning Blended with Web dan Multimedia Technology, Grant for Development of CourseContent - Inherent, Universitas Gadjah Mada |
| Aug 2007 – Jan 2008 | :  | Grantee. Concept of Technology Comprehensive Learning Program as medium to stimulate growth the UGM values. |
| July – Des 2006 | : | Head, Div. Information Technology, SP4 Project, Sistem of Information on implementation of KKN Tematik (obligatory social action internship for advanced university student), Institute of Research and Community Services (IRCS), Universitas Gadjah Mada |

**Other Professional Services**

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| May – Nov 2012Jul 2007 – ... | ::  | Team Leader, Design on Monitoring and Management System for Road and Bridge Quality, Stranas Research Grant of Dir. Gen. Of Higher EducationMember, Team associate student on Dept. Religion scholarship program, Universitas Gadjah Mada |
| Aug 2007 – Jan 2008July 2006 – May 2007June 2006 – June 2007Jan 2006 – Dec 2007Sept 2005 – Dec 2007April – June 1998Jan – Feb 1996Jan – Feb 1996Sept 1995 - Feb 1996July – Oct 1994  | :::::::::: | Grantee, Comprehensive Learning Program of Technology Concept as Stimulate on Growth of Gadjah Mada University Value, Teaching Grant – PPKB Due Like, Universitas Gadjah MadaMember, Board of Community Service, Faculty of Engineering, Universitas Gadjah MadaTeam Leader on Acreditation Preparation, Engineering Physics Program, Dept. Of Physics Engineering, Universitas Gadjah MadaMember, Team of 4th DUE-like Batch Project, Universitas Gadjah MadaMember, Team on Preparation of Institution Accreditation, Quality Insurance Office, Universitas Gadjah MadaResearcher Assistant, Tanah Lot Beach Conservation Project, Inter University Center - Engineering Sciences, Universitas Gadjah MadaResearcher Assistant, Dumai Harbor Development Project, Inter University Center – Engineering Sciences, Universitas Gadjah Mada Researcher Assistant, Jetty Design Project at North Sulawesi Province, Inter University Center – Engineering Sciences, Universitas Gadjah MadaResearcher Assistant, Breakwater Design at Indonesian Navy Base, Teluk Ratai, Lampung, Inter University Center – Engineering Sciences, Universitas Gadjah MadaResearcher Assistant, Research on Artificial Reef Breakwater, Inter University Center – Engineering Sciences, Universitas Gadjah Mada |

**Selected Seminar/Workshop/Training on Energy**

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| Nov 2018Oct 2016Aug 2016Mar 2016Jan 2016Sep 2015Aug 2015May 2015April 2015Nov 2014Aug 20142011 - 2014Nov 2013Sep 2013Aug 2012Jun 2012Jan 2012Nov 2011Oct 2011Sept 2011July 2011 | ::::::::::::::::::::: | Keynote Speaker, Eng. Physics Intl. Conf 2018, ITS SurabayaTraining Coordinator/Trainer, International Training Program On Bioenergy, Non Aligned Movement – Centre for South-South Technical Coop (NAM CSSTC) and New and Renewable Energy Education and Training Centre, Min. Of Energy and Mineral Resources (8 countries)Trainer (Renewable Energy), Planning Quality Improvement and Facilitation for Development of Food-Vulnerable Area, Min. of Village, Development of Disadvantaged Regions and TransmigrationParticipant, Nuclear Non-Proliferation and Safeguards Education, UGM, Texas A&M University, U.S. Dept. of Energy, YogyakartaPanelist, Panel Discussion: Experience in Implementing Least Cost Renewable Projects in Indonesia, GIZ LCORE and Ministry of Energy and Mineral Resources, JakartaTrainer, Course of Micro Hydro Powerplant Design, Center for Energy Study Center, Universitas Gadjah MadaTraining Coordinator/Trainer, International Training Program On Bioenergy, Non Aligned Movement – Centre for South-South Technical Coop (NAM CSSTC) and New and Renewable Energy Education and Training Centre, Min. Of Energy and Mineral Resources (9 countries)Participant, Training of Public Private Partnership in Renewable Energy, Energy Delta Institute - Energy Business School, Ministry of National Development Planning/Bappenas, AmsterdamTrainer, Course of PV Application Development, GIZ ENDEV - Center for Energy Study Center, Universitas Gadjah MadaTraining Coordinator/Trainer, International Training Program On Renewable Energy: Biogas Energy for Community Dev., Non Aligned Movement – Centre for South-South Technical Coop (NAM CSSTC) and New and Renewable Energy Education and Training Centre, Min. Of Energy and Mineral Resources (10 countries)Participant, Workshop on Enhancement of Nuclear Engineering Curriculum with Nuclear Security Subjects, PNS – USA, YogyakartaTrainer, In House Training on Biogas Development, New and Renewable Energy Education and Training Centre, Min. Of Energy and Mineral Resources (Mataram, Gorontalo, Padang, Bengkulu, Palu, Lampung)Guest Speaker, Technical Exchange Forum, Dit. Of Gas, Pertamina, BogorSpeaker, FGD for Mid Term National Development Plan, National Development Planning Agency (Bappenas), YogyakartaResource Person, UN-CECAR Renewable Energy Curriculum Development Working Group Meeting, YogyakartaPresenter, Energy Diversification in Yogyakarta, Seminar of Energy Resilience in Yogyakarta, Yogyakarta Provincial Legislative Council, YogyakartaTrainer, Course of Feasibility Analysis on Mini Hydro Power Plant, Indonesian Electricity Community, JakartaTrainer, Workshop for Renewable Energy Development, Bangka Belitung UniversityPresenter, Architecture Design, Indonesian Islamic University (UII), YogyakartaPresenter, Human Resource Capacity Building to Support Utilization of Renewable Energy as a Clean Energy Source, Ministry for Energy and Mineral Resources, YogyakartaTrainer, Course of PV Application Development, Center for Energy Study Center, Universitas Gadjah Mada |
| Juni 2011Mei 2011Nov 2010Nov 2009Sept 2009Apr 2009Feb 2009Nov 2008July 2008Nov 2007Aug 2007Aug 2007Aug 2006Aug 2005Oct 2002Dec 1998 | :::::::::::::::: | Presenter, Evaluation on Meteorology dan Hydrology in Nuclear Powerplant Site, BapetenPresenter, Workshop on Energy Independent Village, LKPP OTDA, YogyakartaPresenter, Seminar on Development of National Energy Policy and Strategy, Ministry of National Development Planning (PPN)/Bappenas, SoloPresenter, National Meeting on Energy Independent Village, Coord. Min. on Economy, BandungMember, Presenter Team, National Seminar on Renewable Energy Development, Board of Regional Research, Gorontalo Province Presenter, Regional Seminar, Correlation Between Energy Crisis and Environment, Chemical Perspective, Universitas Negeri YogyakartaPresenter, Training on Energy Self-Sufficient Village, Chain Centre, Dept. of Chemical Eng., Fac. of Eng., UGMPresenter, Workshop on Development of National Energy Infrastructure, Ministry of National Development Planning (PPN)/Bappenas, Yogyakarta Presenter, Seminar on Energy Law, Dept. Of Energy and Mineral Resources – Office of Industry, Trade and Cooperation, YogyakartaPresenter, 9th Congress Of National Science, LIPI (Science Institute of Indonesia) – Dept of National Education, JakartaParticipant, FNCA Seminar on Human Resources Development, BATAN and Japan Atomic Energy Agency, YogyakartaPresenter, International Video Conference on Sustainable Energy, Organizer: Universitas Indonesia - JakartaInstructor, Capacity Building Training for Local Stakeholders for Microhydro Powerplant Development Center for Energy Studies, Universitas Gadjah Mada, YogyakartaPresenter, SURED (Sustainable Resource Dev.) Seminar on South Region Development - South Pawonsari Bakulrejo, Dept. Of Civil Engineering, Fac. Of Engineering, Universitas Gadjah MadaInternational Seminar, Alternative Energien – Energien der Zukunft, Afrikanisch-Asiatischen Studentenförderung e.V., Lehrte-Sievershausen, GermanyInstructor, Workshop on Renewable Energy TechnologyDirectorate General of Electricity and Energy Development – Government of Yogyakarta Province, Yogyakarta |

**Other Selected Seminar/Workshop/Training**

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| May 2017Nov 2016Oct 2016Oct 2015Apr 2010 – Dec 2012May 2012July 2007Aug 2006July 2006Dec 2005Aug 2005Sept 2002Apr – Sept 2000Sept 1999 – March 2000Sept 1998Feb 1997 | :::::::::::::::: | Participant, Program Evaluator (PEV) Training, ABET (Accreditation Board for Engineering and Technology), Baltimore USAParticipant, Greenship Associate Training Program, Green Building Council Indonesia, JakartaContributor, Workshop in Education for Sustainable Development, Regional Centre for Expertise, Tongyeong - KoreaParticipant, Training for Evaluator Trainer, International Accreditation for Engineering Education, JABEE - JICA, Tokyo and KumamotoParticipant, Regional Economic Development (RED) Steer and Green Economics Training Program, Inwent – GTZ/GIZ (3 years), Germany, India and IndonesiaParticipant, Internal Audit Training 19011:2011 (ISO), TUV Rheinland, YogyakartaParticipant, Training on E-learning System, Computer Centre – Universitas Gadjah Mada, YogyakartaParticipant, Training on Guideline of Learning Program Based on Student Centered Learning, DUE-like, Universitas Gadjah MadaParticipant, Training on Student Centered Learning Method, Fac. Of Engineering, Universitas Gadjah MadaPresenter, Information Technology For Education Workshop, Education Board of Yogyakarta Special Region, Kepatihan YogyakartaPresenter, Dialog on Science and Technology For Business, BID (Regional Information Board), YogyakartaPresenter, International Seminar on Irrigation Water Management in an Intercultural Context with Special Reference to Indonesia and Germany, IWK – Karlsruhe University, Karlsruhe - GermanyParticipant, Course of Deutsche Language, Goethe Institut Freiburg, GermanyParticipant Course of Deutsche Language, Goethe Institut JakartaParticipant, Intl. Workshop on Project Management, Partnership Project between the Chambers of Industry and Commerce of Yogyakarta and South Westphalia Hagen/Germany, YogyakartaParticipant, Intl. Short Course on Coastal Engineering, BPPT – JICA, Yogyakarta |

**Patent**

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| 2018 | **:** | (accepted on March 12nd, 2018). **Budiarto, R**., Hawibowo, S., Wijaya, R., Waruwu, M.M., Peralatan Pengukur Permukaan Jalan Terhadap Aspek Guncangan pada Kendaraan Dengan Memanfaatkan Teknologi Komputer (Computer-Based Measurement Device of Road Surface based on Shock of Vehicle) |

**Book**

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| 20192017 20152011, 2013 | :::: | Pertiwiningrum, A., **Budiarto, R**., Widhyharto, D.S., and Supriadi, Biogas untuk Kemandirian Energi di Perdesaan (Biogas for Rural Energy Independence), xv + 194, Universitas Gadjah Mada Press, Yogyakarta**Budiarto, R**., Widhyharto, D.S., Prasetya, A., A.R. Wardhana, and J.J., Hidayat, Energi Surya untuk Komunitas - Meningkatkan Produktivitas Masyarakat Pedesaan Melalui Energi Terbarukan (Solar Energy for Community – Increasing Productivity of Rural Community Trough Renewable Energy), xxiv + 217 pp., Konsorsium KemalaWahid, M., Ghazali, A.M., Ubaid, A., Wardhana, A.R., Masud, I., Mohammad, J., Ma’afi, M., **Budiarto, R**., Fikih Energi Terbarukan Pandangan dan Respons Islam atas Pembangkit Listrik Tenaga Surya (Fiqh of Renewable Energy – Islamic View and Response on Photovoltaics), Konsorsium Kemala**Budiarto, R.,** Putero, S.H., Suyatna, H., Astuti, P., Saptoadi, H., Ridwan, M.M. and Susilo, B., Pengembangan UMKM: Antara Konseptual dan Pengalaman Praktis (Development of Small and Medium Enterprise: Between Concept and Practical Experience), Universitas Gadjah Mada Press, Yogyakarta**Budiarto, R**., Kebijakan Energi – Menuju Sistem Energi Yang Berkelanjutan (Energy Policy – Towards Sustainable Energy System), xiv + 280 pp., Samudera Biru, Yogyakarta |

**Scientific Paper**

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| 2019201820172016201520142013201220112010200920082007200620001998 | :::: :::::::::::: | Desi Luvita, N.R., Kholid, R.M., **Budiarto, R**., A scenario of BAPV and BIPV system for long-term projection energy demand in Yogyakarta, AIP Conference Proceedings2097, 030090Pertiwiningrum, A., Wuri, M.A., Widiharto, A., **Budiarto, R.** and Gozan, M., Heating Value Enhanchment by Biogas Purification Using Natural Zeolite and Rice Straw-Based Biochar, Intl. Jour. of GEOMATE, March, 2019 Vol.16, Issue 55, pp. 80 - 85Salis, F.R., Pranadi, A.D., **Budiarto, R.**, Aliyah, F. and Novitasari, D., Comprehensive Education of RES in Rural Karst Area: Sustainable Development of Solar Water Pumping System in Banyumeneng Village, Yogyakarta, Indonesia, Intl. Jour. of Electrical Energy, Vol. 6, No. 2, December 2018, pp 74 - 78Gozan, M., Aulawy, N., Rahman, S.F., **Budiarto, R**., Techno-Economic Analysis of Biogas Power Plant from POME (Palm Oil Mill Effluent), Intl. Jour. of Applied Eng. Research, Vol. 13, Number 8 (2018), pp. 6151-6157Pertiwiningrum, A., Harto, A.W., Wuri, M.A. and **Budiarto, R.,** Assessment of Calorific Value of Biogas after Carbon Dioxide Adsorption Process Using Natural Zeolite and Biochar, Intl. Jour. of Env. Science and Dev., Vol. 9, No. 11, Nov 2018., pp. 327 - 330Suhendri, Wahri Sunanda and **Budiarto, R**., Performance of Glazing Materials for Atrium in Hot and Humid Climate, ICEMP 2018, MATEC Web of Conferences 186, 02007 (2018)Reztrie, N.D., Lubis, I.H., Kusuma, H.E., Koerniawan, M.D., **Budiarto, R**., Perception on Green Building Concept for Vertical Housing, Proc. Of 2018 2nd International Conference on Green Energy and Applications, SingaporeHandayani, T.P., Hulukati, S.A., Gusa, R.F., **Budiarto, R**., Development of a Hybrid Power Supply Control Prototype for Solar-Powered Water Tank Pumping System, Proc. Of 2018 2nd International Conference on Green Energy and Applications, SingaporeWuri, M.A., Pertiwingrum, A., **Budiarto, R.,** Methane Enrichment of Biogas by Carbon Dioxide Adsorption on Natural Zeolite and Biochar Derived from Chicken Manure, Proc. Of The 9th International Graduate Students and Scholars' Conference in Indonesia, YogyakartaWuri, M.A., Pertiwingrum, A., **Budiarto, R.,** Koranto, C.A.D., Characterization of Natural Zeolite and Chicken Manure Derived Biochar for Carbon Dioxide Adsorption in Biogas, Astechnova 2017, E3S Web of Conferences 43, 01008 (2018)Indriani, S.N., Setiawan, A.A., **Budiarto, R.,** Demand Simulation for Water, Food Irrigation, and Energy from Micro Hydro Power Plant in Sungai Bayang, Bayang Utara, Pesisir Selatan West Sumatra, Astechnova 2017, E3S Web of Conferences 43, 01005 (2018)Fariz Qashidi Putra, Dani Rifai, Kutut Suryopratomo and **Budiarto, R.,** Multilevel Diffuser Augmented for Horizontal Axis Wind Turbine, Astechnova 2016, E3S Web of Conferences 42, 01001 (2018)Yollanda Z. Devi, Andang W. Harto, **Budiarto, R.** and Novi Trihastuti, Potential Analysis of Ex-Coal Mining Land As Pumped Storage Hydro Powerplant In Kutai Kartanegara, East Kalimantan, Astechnova 2016, E3S Web of Conferences 42, 01009 (2018)Theodorus T. Wibowo, Faizal H. Daulay, Kutut Suryopratomo, and **Budiarto, R**., Numerical study of the effect of geometry variation on the performance of innovative design wind speed enhancer, Astechnova 2016, E3S Web of Conferences 42, 01013 (2018)**Budiarto, R.**, Wardhana, A.R., and Prastowo, A., Implementation of Islamic Economics in Indonesia by Developing Green Economy through Renewable Energy Technologies, Proc. Of Gadjah Mada International Conference on Islamic Economics and Development, Universitas Gadjah Mada Indonesia**Budiarto, R**., Indarto, Saptoadi, H., Sutrisno, and Sunarno, 2016, New Approach of Reliability Analysis on of High Entalphy Geothermal Powerplant, Proc. Basic Science, Univ Brawijaya, Malang, 2nd-3rd March 2016 Klug, F., Wicaksono, H. and **Budiarto, R.**, Energy modeling for an efficient system development in Indonesian Province Nusa Tenggara Timur (NTT), *Energy for Sustainable Development*, vol. 28 (2015), pp. 88–94Anugrah, P., Setiawan, A.A., **Budiarto, R**., Sihana, Evaluating Micro Hydro Power Generation System under Climate Change Scenario in Bayang Catchment, Kabupaten Pesisir Selatan, West Sumatra, *Energy Procedia*, No. 65 ( 2015 ), pp. 257 – 263**Budiarto, R**., Indarto, Saptoadi, H., Sutrisno, and Sunarno, Recent Development of Non-Conventional Geothermal Powerplant, *Proc. of the 3rd Applied Science for Tech. Innovation, ASTECHNOVA 2014*, Intl. Energy Conference, YogyakartaMegantoro, P., **Budiarto, R**., and Prabowo, I.E., Design of MPPT Based Microcontroller Using Algorithm of Constant Voltage and Perturb & Observ also Buck Converter with Fuzzy Control, *Proc. of the 3rd Applied Science for Tech. Innovation*, *ASTECHNOVA 2014*, Intl. Energy Conference, YogyakartaNa’imah, D.Y.N., **Budiarto, R**. and Harto, A.W., Conceptual Design of Centralized Biogas Power Plant (Case Study in Bantul, Yogyakarta, Indonesia), *Proc. of the 3rd Applied Science for Tech. Innovation, ASTECHNOVA 2014*, Intl. Energy Conference, YogyakartaSetiawan, A.A., Anugrah, P., and **Budiarto, R**., Assessment of Water Supply Potential to Generate Electricity as Micro Hydro Power Plant in Bayang Catchment, West Sumatra, *Proc. of 8th SEATUC Symposium*, UTM, Malaysia**Budiarto, R**., Ridwan, M.K., Haryoko, A., Anwar, Y.S., Suhono, Suryopratomo, K., Sustainability Challenge for Small Scale Renewable Energy Use In Yogyakarta, *Procedia Environmental Sciences 17 (2013) 513 – 518 - Elsevier*Putero, S.H., Rosita, W., Santosa, H.B. dan **Budiarto, R**., The Performance of Various Pozzolanic Materials in Improving Quality of Strontium Liquid Waste Cementation, *Procedia Environmental Sciences 17 (2013) 703 – 710 - Elsevier*Perdamaian, L.G., **Budiarto, R**., Ridwan, M.K., Scenarios to Reduce Electricity Consumption and CO2 Emission of Terminal 3 Soekarno-Hatta International Airport, *Procedia Environmental Sciences 17 ( 2013 ) 576 – 585 - Elsevier***Budiarto, R**., Hawibowo, S., Wijaya, R., and Waruwu, M., Rancang Bangun Sistem Informasi Serta Pemantauan Kualitas Jalan dan Jembatan (Design on Monitoring and Management System for Road and Bridge Quality), Proc. Of Astechnova Seminar, Dept. Of Physics Eng., 2012, YogyakartaVirgiana, A.T., Utami, S.S., and **Budiarto, R**., Perhitungan Efisiensi Energi Green Building Menggunakan Simulator EQuest - Studi Kasus Rest Area Km 6 Tol Cikampek (Prediction on Energy Efficiency in Green Building Using Equest Simulator – Case Study of Rest Area Cikampek Toll Road), Proc. Of Astechnova Seminar, Dept. Of Physics Eng., 2012, Yogyakarta Ali, H., Effendy, N. and **Budiarto, R**., Rancang Bangun Sistem Pengukuran Putaran Sudu Turbin dan Perekam Data Berbasis Mikrokontroler AVR ATMEGA16 pada Turbin Angin di Pantai Baru Ngentak Bantul (Design of Monitoring System on AVR-ATMEGA16-Microcontroller-Based Rotor Rotation and Data Recorder for Wind Turbine in New Beach Bantul), Proc. Of Astechnova Seminar, Dept. Of Physics Eng., 2012, Yogyakarta Setiawan, A.A., Mulya, F.Z.T., Prabowo, I.E. and **Budiarto, R**., Development and Implementation of Solar Power System Unit for Disaster Response and Rural Area in Indonesia, Proc. of The 5th AUN/SEED-Net Regional Conf. on New/Renewable Energy, STE, HUSTPerdamaian, L.G., **Budiarto, R**., and Ridwan, M.K., Determining Energy Conservation Opportunities of Terminal 3 Soekarno - Hatta International Airport Using Energy Simulation Software, *Proc. of 2nd Intl. Conf. On Sustainable Built Environment*, Indonesia Islamic University, YogyakartaSihana, Putero, H.S., Suryopratomo, K., **Budiarto, R**., Community Empowerment: Engineering Education Way in Gadjah Mada University to Elevate Nation Competitiveness and Innovation, *Proc. Of 2012 World Conf. on Continuing Eng. Education*, Intl. Assc. for Continuing Eng. Education (IACEE), Valencia**Budiarto, R.** and Aliyah, F., Potensi Energi Limbah Usaha Mikro Kecil dan Menengah di Kecamatan Ngemplak dan Nogosari Boyolali Jawa Tengah (Waste Energy Potential of Small Medium Enterprise in Ngemplak and Nogosari District Boyolali Central Java), Jour. Of TEKNOFISIKA Vol. 1, No. 1, Mei 2012**Budiarto, R**., Putero, S.H., Kusnanto dan Ferdiansjah, New Learning Approaches in Department of Engineering Physics Gadjah Mada University to Develop Energy Technopreneur in Green Economics Era, *Proc. Of SUSTAIN 2011*, KyotoPutero, S.H., dan **Budiarto, R**., Roles of New and Renewable Energy Engineering Education of Gadjah Mada University in Solving Energy Problems of Indonesia, *Proc. of AMSTECS 2011*, Tokyo **Budiarto, R**., Putero, S.H., Kusnanto dan Ferdiansjah, Preparing Green Economics Trough Synergy Among Seven Courses in Engineering Physics Gadjah Mada University, *Proc. Of Intl. Seminar of APRCE*, YogyakartaPutero, S.H., Kusnanto dan **Budiarto, R**., Developing Technopreneurship for Engineering Physics Students of Gadjah Mada University, WCCEE 2010, Singapore **Budiarto, R.,** Suryopratomo, K., Ahmad, Z.H., Tjojudo, H.D.K., dan Azana, C.P., Evaluasi Kinerja Biogas Digester: Contoh di Yogyakarta (Evaluation on Biogas Digester Performance: Cases in Yogyakarta), *Proc. of Seminar Basic Science VII*, Universitas Brawijaya, Malang**Budiarto, R.,** Tenggara, A.P., Agung, A., Hanggoro dan Jayadi, R., Development of Integrated Hydro Powerplant Design Module, *Proc 1st Seminar on Applied Technology, Science and Art*, ITS - Surabaya**Budiarto, R**. dan Putero, S.H., Kriteria Desain Bahan Bakar Terbarukan Bagi UMKM di DIY (Design Criteria of Renewable Fuel for SMEs in Yogyakarta), *Proc. of 1st Astechnova Nat. Seminar*, Dept. of Eng. Physics, Fac. of Eng., Gadjah Mada University**Budiarto, R**., Financial Challenge in Increasing Hydropower Use in Indonesia, *Proc.* *of World Renewable Energy Regional Congress and Exhibition*, Jakarta**Budiarto, R**., Suryopratomo, K., Prasetyo, A.S., Utami, S.S. dan Maryani, S., Perbandingan Kinerja Kincir Air Undershot Sudu Bergerak dan Tak Bergerak (Performance Comparison Between Moving and Fixed Blade Undershot Water Wheel), *Proc. of National Seminar on Mechanical Engineering and Its Application Support*, Universitas Trisakti, Jakarta**Budiarto, R.**, Dukungan Komprehensif Bagi Penumbuhan Industri Energi Terbarukan Dalam Negeri (Comprehensive Support on Development of National Renewable Energy Industry), *Proc. of National Seminar on Development of Energy Policy, Management and Technology*, Bandung Instute of Technology**Budiarto, R.** dan Agung, A., Potensi Energi Limbah Pabrik Kelapa Sawit (Energy from Palm Oil Industrial Waste), *Proc. of National Seminar on Basic Science VI*, Universitas Brawijaya, Malang**Budiarto, R**., Agung, A. dan Putero, S.H., Audit Energi di Perguruan Tinggi di Daerah Istimewa Yogyakarta (Energy Audit in University in Yogyakarta Special Region), *Proc. of 7th National Scientific Meeting of Engineering Lecturer,* Tarumanegara University, Jakarta**Budiarto, R**., Pendekatan Menyeluruh untuk Mendukung Pengembangan Pemanfaatan Energi Terbarukan (Comprehensive Approach in Supporting Renewable Energy Utilization Development), *Proc.9th Congress Of National Science, LIPI (Science Institute of Indonesia) – Dept. of National Education*, Jakarta**Budiarto, R**, Bahaya Banjir di Tapak PLTN (Flood Hazard in Nuclear Power Plant Site), *Proc. of 12th National Seminar on Technology And Safety of Nuclear Power Plant and Nuclear Facility*, BATAN, Yogyakarta**Budiarto, R**,Model Numeris Transformasi Gelombang(Numerical Model on Wave Transformation), Jour. of Media Teknik, XXII (2)**Budiarto, R**, Nizam and Nur Yuwono, Longshore Current Profile over Barred-Profile Beach, *Proc., 11th Congress of The Asia and Pacific Division of IAHR*, Yogyakarta – Indonesia |

**Teaching Experience**

| Post GraduateMagister of Technology for Sustainable Development, UGMMagister of Engineering System, Fac. of Eng., UGMMagister of Engineering PhysicsFac. of Eng., UGMMagister of Industrial Safety Engineering, Fac. of Eng., UGM  | :::: | System and Technology of Renewable Energy (2012 – 2013, 2016 - …)Energy System (2016 - …)System of Small and Medium Industry (2012 – 2014)Introduction to Computer (2009 – 2010)Hydro and Wind Energy (2017 - …)Geothermal (2017 - …)Engineering System (2009)Ventilation (2006 – 2010)Noise Control (2007) |
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| Under GraduateDept. of SociologyDept. of Architecture and Planning Eng., UGMDept. of Economics Science, Fac. Of Economics and BusinessDept. of Engineering Physics, Fac. of Eng., UGM | :::: | Energy Sociology (2019 - …)Design of Energy System Development (2017 - …)Energy Economics (2018 - …)Livable City (2016 - …), Energy Convertion (2016 - …)Fluid Mechanics (2016 - …), Engineering Economics (2014 - 2016), Integration of Renewable Energy (2012 – 2015),Energy Conservation (2006 – ...), Energy Policy (2005 – 2012), Wind Energy (2005 – ...), Hydropower (2005 – ...), Renewable Energy (2005 – ...), Concept of Technology (2005 – 2016), Energy Management (2006 – 2007),Optimation of Power Generation (2009), Alternative Energy (2009), Engineering Mechanics (2009), Wave Phenomen (1998 – 1999), Physics I (1998 – 1999, 2007), Calculus I (1998 – 1999) |
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