

Muhammad Arifin Dobson

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Field of Interest : Science, Physics, Astronomy, Instrumentation and Education.

Education

2000-2002	TK Sinar Surya Palangka Raya	(Kindergarten)
2002-2008	SDN Pancasila Lembang	(Elementary School)
2008-2011	SMPN 7 Bandung	(Junior High School)
2011-2014	SMAN 3 Bandung	(Senior High School)
2014-2018	Physics, Universitas Katolik Parahyangan	(Bachelor's Degree)
2020-2022	Astronomy, Institut Teknologi Bandung	(Master's Degree)

Project Experiences

1. Solar and Gas Water Heater control system. Maximizing the combination of solar and gas to reach an efficient system with the ability to vary the production capacity.
2. Active in Organizing Young Scientist movement, Collaboration with Center for Young Scientist (CYS) Indonesia. Organizing Committee of Asia Pacific Conference of Young Scientist (APCYS) 2020.
3. Research Assistant in Gravitational Lensing Group, Department of Astrophysics, Bandung Institute of Technology (ITB)
4. BioGas Monitoring system, with Internet of Things enabled as an option.
5. Automatic Hydroponic spraying system for Fodder Production.
6. Sliding roof controller for an observatory in Lembang.

Work Experiences

1. Co-Founder of EcoSol Inovasi & Solusi.
Alternative Structure and Energy Saving start-up.
2. Researcher of ImahNoong Observatory
Developing Instrumentation and Internet of Things for Astronomy.
3. Co-Founder of FÜN Media Laboratory
Science media platform start-up.
4. Co-Founder of WDS Indonesia Cerdas
Renewable energy and Internet of Things (IoT)
5. Assistant Lecturer and Lab Assistant in Physics Department, Universitas Katolik Parahyangan:
 - a. Basic Physics Class & Lab, Computational Physics
January - June 2020
 - b. Electrodynamics, Electronics Lab, Basic Physics Lab
August - November 2019
 - c. Computational Physics and Basic Physics Lab
January - June 2019
 - d. Advanced Physics and Electronics Lab

August - November 2018

e. Computational Physics

January - June 2017 & January - June 2018

6. Research Assistant (Asisten Peneliti) at Lembaga Ilmu Pengetahuan Indonesia (LIPI). Working on ALICE - CERN Collaboration for High Performance Computing in Particle Accelerator data processing. March - December 2018.

Organizational Skills

1. Co-Founder of LivingLab Indonesia, Education Research Initiative.
2. Co-Founder of Beranda Karya, Alternative-Education Movement.
3. Vice President of Unpar Student Council (Wakil Presiden Mahasiswa, Lembaga Kepresidenan Mahasiswa, Universitas Katolik Parahyangan periode 2017/2018)
4. President of Physics Department Student Council (Ketua Himpunan Mahasiswa Program Studi Fisika, Universitas Katolik Parahyangan periode 2016/2017)
5. Staff of Student Welfare in Unpar Student Council (Staf Direktorat Jenderal Kesejahteraan Mahasiswa, Lembaga Kepresidenan Mahasiswa, Universitas Katolik Parahyangan periode 2015/2016)
6. Staff of Bengkel Sains Unpar 2014-2019 (Science Club for Teaching student in High School, Junior High School and Elementary School)
7. President of SMAN 3 Bandung Research Team (Trilogi) 2014

Awards and Achievements

1. Silver Medal University Physics Competition 2017 for Problem A
2. 1st Place MAWAPRES KOPERTIS IV 2017 West Java & Banten Most Outstanding Private University Student
3. 1st Place MAWAPRES UNPAR 2017 Parahyangan Catholic University Most Outstanding Student
4. Honorable Mention in Mathematical Contest in Modeling 2017
5. IAS-IOP Workshop Envisioning Physics Education for the 21st Century Delegation to NTU, Singapore
6. Bronze Medal University Physics Competition 2015 for Problem B
7. World Model United Nations 2015 UNPAR's Delegation for World Health Organization
8. Asian Science Camp 2014 Top 5 Physics posters challenge.
9. The OCPA8 International Conference on Physics Education and Frontier Physics, 3rd Place Award in High School Poster Submissions.
10. National Young Scientist Competition 2013 (LPBN) Gold Medal in Computer Science.
11. Young Scientist Competition 2013 (YSC) Gold Medal in Computer Science.
12. Singapore International Science Challenge 2013 (SISC) 1st Runner Up in Design and Build Challenge & Merit Award in Research Symposium.
13. Indonesian Outstanding Students for The World 2013 (OSTW) Delegation to London and Oxford, United Kingdom.
14. International Conference of Young Scientist 2013 (ICYS) Silver Medal in Applied Physics & Special Awards from Star Energy.

15. Indonesian Young Scientist 2012 (InaYS) Silver Medal in Ecology.
16. Festival of Making Applied Technology 2007 Bronze Medal by Making Solar Water Heater.