Curriculum Vitae

Surname:	Purnawarman
First Name:	Musa
Date of Birth:	December 18, 1975
Academic Qualification:	Doctor in Information Technology, Master in Engineering (Telecommunication), Master in Communication Science (New Media Technology), and Bachelor in Computer Science.
Venia Legendi (qualification to teach):	Visual Communication, Animation Production, Computer Graphics, Computer Networks, Control Systems, Psychology and Information Technology, Pervasive Computing, Wireless Sensor Network
Further Qualifications:	Lecturer Certification as a Professional Teacher

At the Higher Education Institution since:	2001
Level of Employment:	From 2001 as a permanent lecturer, 2002 to 2006 as staff of Labotorium of Computer, 2006 to 2008 as staff Network Operation Center, and 2014 as Head of Study Center of Multimedia and Robotics.
Teaching Focus:	
Interdisciplinary Aspects:	Information Communication and Computer, Sensor and Network Analysis.
Activities in the Areas:	
- **Further Education**	
- **Research**	New Media and Technology, Robotics, Artificial intelligence
- **Consultancy**	Guiding students in conducting their research projects for Bachelor's and Master's thesis.
How are personal research activities reflected in teaching activities?	

Work experience:	
- **General**	Permanent lecturer in the Information Technology program at Gunadarma University became head of the Head of Study Center of Multimedia and Robotics at Gunadarma University.
- **Activities as an Expert:**	Artificial Intelligence and Robotics
Publications:	1. Purnawarman Musa, Eri Prasetyo Wibowo, Saiful Bahri Musa, Iqbal Baihaqi, Pelican Crossing System for Control a Green Man Light with Predicted Age, Matrik : Jurnal Manajemen, Teknik Informatika, dan Rekayasa Komputer, ISSN: 2476-9843. Vol. 21 No. 2, 2022 2. Purnawarman Musa, Imam Purwanto, Dennis Aprilla Christie, Eri Prasetyo Wibowo, Rudi Irawan, The methodology for obtaining nonlinear and continuous three-dimensional topographic data using inertial and optical measuring instruments of unmanned ground systems, Computer Optics. Vol. 46, No. 2, 2022 3. Imam Purwanto, Eri Prasetyo Wibowo, Dennis Aprilla Christie, Purnawar- man Musa, Robby Kurniawan Harahap, Rudi Irawan, Comparative Performance Evaluation of Direction Cosine Matrix And Madgwick's As 3d Orientation Estimation

	Algorithm, ICIC Express Letters.Vol. 15, No. 4, 2021
	4. Risan Putra Anggara, Purnawarman Musa, Sri Lestari, Suryarini Widodo, Application of Electronic Learning by Utilizing Virtual Reality (VR) and Augmented Reality (AR) Methods in Natural Sciences Subjects (IPA) in Elementary School Students Grade 3, Jurnal Teknologi Pendidikan, ISSN: 1411-2744. Vol. 23, No. 1, 2021
	5. Aldy Mohamad, and Purnawarman Musa, Designing Software Define Network Prototypes with Open vSwitch as Monitoring Traffic Police on The Raspberry Pi, Aviation Electronics, Information Technology, Telecommunications, Electricals, Controls, ISSN:2685-2381. Vol. 2, No. 2, 2020
	6. Emy Haryatmi, Tubagus Maulana Kusuma, Busono Soerowirdjo and Purnawarman Musa, The Design and Performance Analysis of DTMB System, TELKOMNIKA (Telecommunication Computing Electronics and Control). Vol. 14, No. 3, 2016
	7. Purnawarman Musa and Nur Farida Irmawati, Hardware Software Co-Simulation and Real-Time Video Processing For Edge Detection Using Matlab Simulink Model Blockset, Computer Engineering and Intelligent Systems. Vol.7, No.1, 2016
	8. Eri P. Wibowo, Hamzah Affandi, Busono Soerowirdjo, Brahmantyo Heruseto, Purnawarman Musa, and Michel Paindavoine, Design, and Imple- mention of ADC Implanted in 10 000 Frames High-Speed CMOS Sensors, International Journal of Computer and Electrical Engineering. Vol. 4, No. 6, December 2012
	9. A. Muslim, A. B. Mutiara, C. M. Karyati and Purnawarman Musa, An Algorithm for Index Multimedia Data (Video) using the Movement Oriented Method for Real-time Online Services, ArXiv e-prints. 2010
Memberships:	2022 – now Member of Informatic and Computer Science of Higher Education Association (Asosiasi Pendidikan Tinggi Informatika dan Komputer/APTIKOM), 2022 – 2026 Member of Indonesian Association of Informaticians (Ikatan Ahli Informatika Indonesia / IAII)
International experience in:	
- **Corporate Management**	
- **Academic Activities**	2014 – 2018 Summer Intern: The internship students from ESIGELEC, France, at Gunadarma University, Indonesia, as Co. Supervisor.
- **Personal Background/ Experience**	CanSat Satellite Project, at Gunadarma University, Indonesia, as Supervisor. Implementasi CanSat Satellite for Cansat International 2016 in UlaanBaatar-Mongolia

Other:	February – April 2016, Winter Intern at LEAD - Université de Bourgogne, France, Internship. Implementation of Eigeface algorithm for Face Recognition on FPGA