

CURRICULUM VITAE

I. IDENTITAS DIRI

1.1.	Nama Lengkap	Nazrul Effendy, ST. MT. Ph.D.	L/P
1.2.	Jabatan Fungsional	Lektor Kepala	
1.3.	NIP	197406141999031002	
1.4.	Tempat dan Tanggal Lahir	Dabosingkep, Kep. Riau, 14 Juni 1974	
1.5.	Alamat Rumah	Timur Kompleks Pertamina, Karangmojo no 34A, RT 05 / RW 03, Purwomartani, Kalasan, Sleman, Yogyakarta	
1.6.	Nomor Telepon/Fax	0274-7188012	
1.7.	Nomor HP	081391834474	
1.8.	Alamat Kantor	Jurusan Teknik Fisika, UGM, Jl. Grafika 2, Yogyakarta	
1.9.	Nomor Telepon/Fax	0274-580882 / 0274-580882	
1.10.	Alamat e-mail	nazrul@gadjahmada.edu	

II. RIWAYAT PENDIDIKAN

2.1.	Program:	S1	S2	S3
2.2.	Nama PT	Gadjah Mada University	Gadjah Mada University	Program Sandwich antara Chulalongkorn University dan Tokyo Institute of Technology
2.3.	Bidang Ilmu	Teknologi Instrumentasi	Teknologi Instrumentasi	Pengolahan dan pengenalan suara
2.4.	Tahun Masuk	1992	1998	Nov 2003
2.5.	Tahun Lulus	1998	2001	2009
2.6.	Judul Skripsi/ Tesis	Implementation of Artificial Neural Networks to recognize the frequency spectrum	Design of Monitoring System of Abnormality of Electrocardiograph Signals Based on Their Frequency Spectrum Recognition using Artificial Neural Networks	A study of prosodic features for Indonesian speech recognition
2.7.	Nama Pembimbing	Dr. Ir. Widi Setiawan Ir. Balza Achmad, MSc.E.E.	Prof. Dr. Th. Sri Widodo Dr. Ir. Widi Setiawan	Prof. Dr. Somchai Jitapunkul Prof. Dr. Sadaoki Furui

III. PENGALAMAN PENELITIAN

No.	Tahun	Judul Penelitian	Program, Pendanaan	
			Sumber	Jumlah (Juta Rp)
1	2013	Rancang Bangun Smart Bed untuk Pasien di Ruang Rawat Inap Rumah Sakit yang dilengkapi dengan Sistem Monitoring Kesehatan Wireless untuk memudahkan dokter dan paramedik mengambil tindakan yang diperlukan untuk meningkatkan kualitas hidup pasien	DIKTI	100
2	2013	Analisis Penggunaan Energi dan Pengendalian Air Conditioner Secara Wireless Pada Ruang Inap	DIKS FT-UGM	30

		Pasien di rumah Sakit Untuk Mencapai Keseimbangan antara Kebutuhan Efisiensi Energi dan Kenyamanan dan Kesembuhan Pasien		
3	2012	Rancang Bangun Alat Bantu Diagnosis dan Sistem Monitoring Wireless Pada Pasien Penderita Gangguan Ginjal Berbasis Jaringan Syaraf Tiruan	Hibah Penelitian kolaboratif dosen-Mahasiswa - BOPTN	6,65
4	2012	Perancangan Sistem Tracking Matahari (<i>Sun Tracking System</i>) Panel Photovoltaic dengan Menggunakan Sensor Tabung dan Logika Fuzzy Untuk Meningkatkan Efisiensi Energi Listrik Yang Dihasilkan	Hibah Penelitian kolaboratif dosen - BOPTN	6,65
5	2012	Perancangan Situs Jejaring Sosial yang Terintegrasi dengan Aplikasi Bank Virtual Sebagai Database Penderita Penyakit yang Tidak Mampu Berbasis SMS Gateway	Hibah Penelitian kolaboratif dosen - BOPTN	6,65
6	2011	Measurements of particle flow in a pipe	Part of staff exchange program of Erasmus Mundus Lotus	
7	2009-2010	Optimal identification of multidimensional polynomials describing systematic errors in CNC machines	Postdoc supported by Erasmus Mundus EuroAsia	
8	2009	Design of an automatic answering system of airline ticketing using Indonesian speech	AUN/SEED Net	34
9	2003-2009	Recognition of Indonesian prosody using artificial intelligence	Supported by AUN/SEED Net	
10	2008	Pengenalan Intonasi dalam Ucapan Berbahasa Indonesia menggunakan Jaringan Saraf Tiruan	Dana masyarakat FT-UGM	7,5

IV. PENGALAMAN PENULISAN ARTIKEL ILMIAH DALAM JURNAL

No.	Tahun	Judul Artikel Ilmiah	Volume/ Nomor	Nama Jurnal / Proceeding
1	2013	Automatic Recognition System for Speech Discrimination Cerebral Palsy using Mel-Cepstral Stochastic Model	22-23 Augustus 2013	Proceedings of regional conference on computer & information engineering, 22-23 Augustus 2013, Bangkok, Thailand (Penulis: Syifaun Nafisah, Oyas Wahyunggoro, Lukito Edi Nugroho, Nazrul Effendy)
2	2012	Rancang bangun sistem pengukuran putaran sudu turbin dan perekam data berbasis mikrokontroler AVR ATmega16 pada turbin angin di pantai baru, Ngentak, Bantul	Nov 2012	prosiding Seminar Applied Science For Technology Innovation 2012 (ISSN : 2086-0005, penulis: Hanafi, Nazrul Effendy , Rachmawan Budiarto)
3	2012	The recognition of the lip motion patterns while uttering the Indonesian vowel phonemes	September 2012, vol. 1, No.2, pp 1-5	Jurnal Tekno Fisika (ISSN: 2089-7154, penulis: Faridah dan Nazrul Effendy)
4	2011	Optimal identification of multidimensional polynomials describing systematic errors in CNC machines		Proceedings of the 21st International Conference on Production Research, July 31 – August 4, 2011, Stuttgart, Germany (Penulis: Gustavo Belforte, Erik L. J. Bohez, Nazrul Effendy)

5	2009	Recognition of nominal value of a paper money based on its dominant color using neural net	1	Proceeding seminar nasional Astechnova (Applied Science for Technology Innovation) 2009, Yogyakarta, ISSN : 2086-0005 (Penulis: Amir Faisal, Faridah, Nazrul Effendy)
6	2009	Automatic Recognition of Indonesian Declarative Questions and Statements Using Polynomial Coefficients of the Pitch Contours	July 2009	Acoustical Science and Technology (Penulis: Nazrul Effendy , Koichi Shinoda, Sadaoki Furui, Somchai Jitapunkul)
7	2008	A novel Indonesian intonation recognition system using binary matrix conversion of the pitch contour		Proceedings of International Conference on Telecommunications (ICTel) 2008, Bandung, August 19-21, 2008, ISSN: 1858-2982 (best paper) (penulis: Nazrul Effendy , Faridah, I Nyoman Kusuma Wardana, Esti Puspitaningrum)
8	2008	A novel Indonesian intonation recognition system using binary matrix conversion of the pitch contour	June 2008, vol. 13, No.1, hal 1-5	Jurnal Penelitian dan Pengembangan TELEKOMUNIKASI, ISSN: 1410-7066, accredited by Directorate of Higher Education, Department of National Education No. 48/DIKTI/Kep/2006 (penulis: Nazrul Effendy , Faridah, I Nyoman Kusuma Wardana, Esti Puspitaningrum)
9	2008	The aplication of fuzzy logic controller on the photovoltaic panel of the sun tracking system	Edisi Mei 2008	Media Teknik, accredited by Directorate of Higher Education, Department of National Education (penulis: Nazrul Effendy , Adnan Syarafi, Arditya Yulinggar, dan I Nyoman Kusuma Wardana)
10	2008	Identification System of Speech Intonations for the monitoring and controlling of electric equipments using neural networks	Hal. 053-061	Proceedings of the conference on application and research in industrial technology, August 2008, ISBN: 978-979-18528-0-7 (penulis: Nazrul Effendy , Faridah, I Nyoman Kusuma Wardana, and Teguh Iryanto)
11	2008	Deteksi pornografi pada citra digital menggunakan deteksi tepi sobel dan jaringan syaraf tiruan LVQ	Hal. 497-503	proceedings of National Conference on the Information Technology Research (SRITI) 2008, Yogyakarta, ISSN 1907-3526 (penulis: Nazrul Effendy , Rifqi Imanto, Ayodya P Tenggara)
12	2008	Sistem kendali suspensi aktif mobil menggunakan <i>neuro-fuzzy</i>	Hal. 20-24	proceedings National Conference on Teknologi Industri (SNTI) 2008, Jakarta, 23 Juli 2008, ISSN 978-979-18265-0-1 (penulis: Nazrul Effendy , Nandan Suterena, Marten Darmawan dan Bagus Utomo)
13	2008	Perancangan sistem pakar untuk diagnosa penyakit mulut dan gigi menggunakan bahasa pemrograman clips	E.57-E.60	proceedings of seminar nasional aplikasi teknologi informasi (SNATI 2008), 21 Juni 2008, UII-Jogjakarta, ISSN 1907-5022 (penulis: I Nyoman Kusuma Wardana, Alfa Antariksa,

				Nazrul Effendy)
14	2008	Prediksi penyakit jantung koroner (PJK) berdasarkan faktor risiko menggunakan jaringan syaraf tiruan backpropagation	Hal. E.19–E.24	proceedings of seminar nasional aplikasi teknologi informasi (SNATI 2008), 21 Juni 2008, UII-Jogjakarta, ISSN 1907-5022 (penulis: Nazrul Effendy , Subagja, dan Amir Faisal)
15	2008	Aplikasi kontrol logika fuzzy pada sistem tracking matahari (sun tracking system) panel photovoltaic	Hal. G.27-G.32	proceedings of seminar nasional aplikasi teknologi informasi (SNATI 2008), 21 Juni 2008, UII-Jogjakarta, ISSN 1907-5022 (penulis: Nazrul Effendy , Adnan Syarafi Ashfahani, Arditya Yulinggar, dan I Nyoman Kusuma Wardana)
16	2008	Implementasi logika fuzzy untuk mengendalikan pH dan level air kolam renang	Hal. G.21-G.26	proceedings of seminar nasional aplikasi teknologi informasi (SNATI 2008), 21 Juni 2008, UII-Jogjakarta, ISSN 1907-5022 (penulis: Nazrul Effendy , M. Heikal Hasan dan Febry Wikatmono)
17	2008	Perancangan Sistem Kendali pada Micro Hydro dengan Fuzzy Logic Controller,	Hal. 162-167	Proceedings of National Seminar on Information Technology 2008, UPN veteran, Jogjakarta, 24 Mei 2008 (penulis: Nazrul Effendy , Ridwan Herdiawan, Fikri Nur Muhammad dan I Nym Kusuma Wardana)
18	2008	Implementasi dan Perancangan Sistem Pakar Untuk Diagnosa Penyakit Mata pada Manusia Berbasis Pemrograman Clips	Hal. 248-254	Proceedings of National Seminar on Information Technology 2008, UPN veteran, Jogjakarta, Mei 2008 (penulis: Nazrul Effendy , Febry Wikatmono, M. Haekal Hasan dan Nandan Suteressa)
19	2008	Kontrol Gerakan Buka Tutup Pintu Untuk Akses Sistem Keamanan Menggunakan Pola Iris Mata Manusia	Hal. 168-174	Proceedings of National Seminar on Information Technology 2008, UPN veteran, Jogjakarta, Mei 2008 (penulis: Nazrul Effendy , Khoerul Anwar, Ananda Dwi Mahendra dan Beta M.G.S)
20	2008	Peredaman Osilasi Getaran Pada Suatu Sistem Dengan Pemodelan Pegas-Damper Menggunakan Kendali Logika Fuzzy	Hal. 255-264	Proceedings of National Seminar on Information Technology 2008, UPN veteran, Jogjakarta, Mei 2008 (penulis: Nazrul Effendy , Singgih I Kurniawan, Intan Putri K, dan Nor Agny S. Utami)
21	2008	Implementasi “Jaringan Syaraf Tiruan” Untuk Mendeteksi Cacat Bentuk Sel Darah Manusia dengan Menggunakan Pengolahan Citra	Vol 8, Hal. 53-59	proceedings of the Fourth Nasional Seminar on Technology, vol 8, UTY-Jogjakarta, 5 April 2008 (penulis: Nazrul Effendy , Khoerul Anwar, Beni Adi Trisna, dan Ananda Dwi Mahendra)
22	2008	Pengendalian Debit Air Sungai Berdasarkan Curah Hujan Dengan Neuro-Fuzzy	Vol 8, Hal. 60-69	proceedings of the Fourth Nasional Seminar on Technology, vol 8, UTY-Jogjakarta, 5 April 2008 (penulis: Nazrul Effendy , Rifqi Imanto, Aresdi Praha, dan I Nyoman Kusuma)

23	2008	Pengenalan Sidik Jari Menggunakan Jaringan Saraf Tiruan Learning Vector Quantization	Vol. 8, Hal. 98-101	proceedings of the Fourth Nasional Seminar on Technology, vol 8, UTY-Jogjakarta, 5 April 2008 (penulis: Nazrul Effendy , Sasono Ardhi Widagdo, dan Mu'adz Mohamad)
24	2004	Intonation Recognition for Indonesian Speech Based on Fujisaki Model,	hal. 2973-2976	proceeding of International Conference on Spoken Language Processing (Interspeech 2004), Jeju Island, Korea, 2004, ISSN: 1225-441x (Penulis: Nazrul Effendy , Maneenoi, E., Charnvivit, P., Jitapunkul, S)

V. PENGALAMAN MENGAJAR

No.	Tahun	Judul Matakuliah	Sifat	Keterangan
1	2008, 2011-present	Pengolahan Sinyal	wajib	Team Teaching
2	2008, 2011- present	Sinyal dan Sistem	Wajib	single
3	2008-2009,2011- present	Kecerdasan Buatan	pilihan	single
4	2008	Kontrol Cerdas	pilihan	single
5	2008-2009,2011- present	Gambar Teknik	wajib	single
6	2010-present	Teknik Kontrol Modern	wajib	Team Teaching

VI. PELATIHAN/COURSE YANG PERNAH DIIKUTI

1. Training of Trainers Workshop on Green Boiler Technology, organized by United Nations Industrial Development Organization (UNIDO), held in Jakarta, Oct 28-29, 2013
2. Workshop on Developing education through research, facilitators: Ariel B. Lindner, Dusan Misevic, Antoine Decrulle, Stephane Douady, Luping Xu, Eva-Maria Schoetz (Center for researches and Interdisciplinary – Paris), held in Gadjah Mada University, Dec 20-23, 2011
3. Energy for Sustainable Development in Asia, delivered by energy experts including Mr. Sivanappan Kumar (AIT), Ms. Christina Aristanti (Dian Desa, ENERGIA), Mr. V.K. Vijay (IIT), Mr. Bundit Funtamasan (JGSEE), Mr. Tetsuo Tezuka (Kyoto U), Mr. Hideaki Ohgaki (Kyoto U), Mr. Keichi Ishihara (Kyoto U), Mr. Low Seow Chay (Nanyang Tech U), Mr. Yanjia Wang (Tsinghua U), Mr. P.Ravindra (U Malaysia Sabah) and Mr. Hubert Gijzen (UNESCO), Feb 10 – Apr 7, 2011 (supported by UNESCO)
4. Renewable Energy Policy & Planning for Sustainable Development, delivered by energy experts including Mr. Sivanappan Kumar (AIT), Dr. Abdul Salam (AIT) and Dr. Charles Marpaung (AIT), Mar 10 - Apr 5, 2010 (supported by UNESCO)
5. *Multimedia Enhanced Instructions System for Technical Education and Training(MEIST)*, Multimedia University, Malaysia, May 12 – May 27, 2007 (under the Malaysian Technical Cooperation Program (MTCP))
6. *Recent Advances in Ultrawide Bandwidth Communications and Networks*, Prof. Dr. Moe Win, Laboratory for Information and Decision Systems (LIDS), Massachusetts Institute of Technology, <http://wgrouops.lids.mit.edu/>, held in Chulalongkorn University, March 9, 2007.
7. *Technical/Professional Writing Course*, International School of Engineering, Faculty of Engineering, Chulalongkorn University, August 15-October 10, 2006

8. Parameter Estimation in Chemical Plant using Genetic Algorithm, Associate Prof Dr. Muhamed Azlan Hussain, University of Malaya, Email: mohd_azlan@um.edu.my, held in Chulalongkorn University, September 8, 2004
9. Advanced Process Dynamics and Control, Lecture and Computer Lab Using MATLAB and Simulink by Professor Sirish L. Shah (Author of Control Loop Performance Assessment: Theory and Application, <http://www.ualberta.ca/~slshah>), University of Alberta, Canada, Held in Chulalongkorn University, January 16-26, 2004.
10. Laser Technology in Peace and War, Prof. Nicolaas Bloembergen (a Nobel Laureate for Physics in 1981, <http://www.optics.arizona.edu/Faculty/Resumes/Bloembergen.htm>), the Optical Sciences Center at University of Arizona, Held in Chulalongkorn University, January 12, 2004
11. Sciences and Global Communication based on Optical Science and Technology, Prof. Nicolaas Bloembergen (a Nobel Laureate for Physics in 1981, <http://www.optics.arizona.edu/Faculty/Resumes/Bloembergen.htm>), the Optical Sciences Center at University of Arizona, Held in Chulalongkorn University, January 12, 2004.
12. TOEFL Preparation Course, English Training Center, Gadjah Mada University, 1998.
13. English Course, Intensive English Course, Yogyakarta, Indonesia, 1998-1999
14. Japanese Language Course, Indonesia – Japan-Indonesia Institute, Yogyakarta, Indonesia, 1999
15. Training of Writing of Teaching Material, Gadjah Mada University, 2001

VII. SCHOLARSHIPS/AWARDS

- ❑ Staff Exchange Program, Machine learning and intelligent optimization Lab, Trento University, Italy, Erasmus Mundus AREAS Scholarship, Nov 3 - Dec 2, 2013
- ❑ Staff Exchange Program, Instrumentation, Control and Embedded Systems (ICES) research group, School of Engineering and Digital Arts, Kent University, Erasmus Mundus Lotus Scholarship, Oct 22 – Nov 20, 2011
- ❑ Post Doc, Department of Control and Computer Engineering, Politecnico di Torino, Italy, Erasmus Mundus Scholarship, July 3, 2010-May 3, 2011 (10 months)
- ❑ Short Term Research Program in Japan, the grant consists of round trip airfare, local transportation in Japan, accommodation in Japan, Shinoda Laboratory, Tokyo Institute of Technology, Japan, supported by AUN/SEED Net, August 11 – Sept 8 2009.
- ❑ Grant of the Development of Teaching Material, Gadjah Mada University, 2009 (10.000.000,- IDR; director)
- ❑ Pembimbing PKMT, grant dikti (1 tim), 2009
- ❑ Pembimbing PKMT, grant dikti, 2008 (2 tim, 1 tim menjadi finalis PIMNAS di Semarang dan berhasil meraih medali perak)
- ❑ Soft Skills Teaching Grant, A2 Competition Grant Program, Directorate General of High Degree Education, Department of Education, Indonesia, September 2007 – February 2008
- ❑ Malaysian Technical Cooperation Program (MTCP) Fellowship, Multimedia University, tuition fee, air travel, and living allowance, May 12 – May 27, 2007
- ❑ AUN/SEED-Net (JICA) Scholarships, Doctoral Sandwich Program, Chulalongkorn University-Tokyo Institute Of Technology, tuition fee, air travel, book allowance, and living allowance (since 27 October 2003 for 3 years)
- ❑ JICA, Research student, Department of Computer Science, Tokyo Institute of Technology, Tokyo, Japan, September 2005 – August 2006.
- ❑ URGE Scholarship, tuition fee and living allowance, in persuading master degree in Gadjah Mada University, 1998-2001
- ❑ Danamon Bank Scholarship, Living allowance, in persuading bachelor degree in Gadjah Mada University, 1997-1998
- ❑ Astra Scholarship, living allowance, in persuading bachelor degree in Gadjah Mada University, 1996-1997

- ❑ PPA Scholarship, living allowance, in persuading bachelor degree in Gadjah Mada University, 1995-1996
- ❑ Supersemar Scholarship, living allowance, in persuading bachelor degree in Gadjah Mada University, 1994-1995

Semua data yang saya isikan dan tercantum dalam biodata ini adalah benar dan dapat dipertanggung jawabkan secara hukum apabila dikemudian hari ternyata dijumpai ketidaksesuaian dengan kenyataan, saya sanggup menerima resikonya.

Demikian biodata ini saya buat dengan sebenarnya.

Yogyakarta, 1 November 2013

Nazrul Effendy, ST. MT, Ph.D.
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