Curriculum Vitae

People. Innovation. Excellence.

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Educational Background

- **Sept 2009 – Present : PhD Candidate in Electrical Engineering, University of Indonesia.**
  Research : Compressive Sensing

- **Aug 2003 - Aug 2005 : Magister in Optoelectronics and Laser Application, University of Indonesia.**
  Research : Nonlinear Fiber Optics (Soliton)

- **July 1997 – March 2001 : Faculty of Computer Studies, Major in Computer Engineering, University of Bina Nusantara, Jakarta, Indonesia.**
  Research : Digital Signal Processing (DSP)

- **July 1994 – July 1997 : SMUN 78, Jakarta, Indonesia.**

COURSES:

1. Digital Signal Processing
2. Advanced Calculus
3. Modelling and Simulation
4. Realtime Systems
5. Integrated Electronics
6. Discrete Electronics
7. Electric Circuit Theory
8. Mechatronics
9. Robotics

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AWARD:

No.	Nama Penghargaan	Bidang	Pemberi Penghargaan	Tahun	Tingkat (Lokal/Nasional/ Internasional)	Keterangan
1	Best Teaching Award Jurusan Sistem Komputer	Akademik	Univ.Binus	2010	Lokal	-
2	Medali Emas, Perak dan Perunggu	Fisika	Kompetisi Fisika Tingkat Asia-Eropa	1997	Internasional	Kategori Eksprimen, Teori dan Gabungan
3	Juara 3	Fisika	Universitas Kristen Indonesia	1996	Nasional	Kompetisi Fisika se-Indonesia,
4	Juara 2	Sains (Fisika, Kimia, Matematika)	Universitas Gajah Mada	1996	Nasional	Olimpiade Sains Nasional (Tim)
5	Juara 1	Fisika	IKIP Jakarta	1993	Jabodetabek	Kompetisi Fisika (Tim)

Publikasi

1. Endra, “Optimasi Bersama Kamus-Basis Dan Matriks Pengukuran Pada Penginderaan Kompresif,” Seminar Nasional Teknologi Informasi, Komunikasi Dan Aplikasinya, SNATIKA, Malang 11 November 2011.
2. Endra, “Rekonstruksi Citra Warna Dari Penginderaan Kompresif Dengan Matriks Pengukuran Teroptimasi”, Binus ICT Conference, Jakarta, August 15th – 16th 2011.
3. Oey Endra, Dadang Gunawan, “Image Reconstruction From Compressive Sensing With Optimized Measurement Matrix,” 12th International Conference on Quality in Research (QiR) 4 – 7 July, 2011, UI.
4. Endra, “Comparison of Optimized Random Gaussian and Partial Random Fourier Measurement in Compressive Sensing”, 12th International Conference on Quality in Research (QiR) 4 – 7 July, 2011, UI.
5. Oey Endra, Dadang Gunawan “Comparison of ell-1-Minimization and Iteratively Reweighted Least Squares-ell-p-Minimization for Image Reconstruction from Compressive Sensing”, Second International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2-3 Dec 2010, UBINUS.
6. Endra, “Color Image Reconstruction From Compressive Sensing Using Iteratively Reweighted Least Squares-l1 –Minimization”, Makassar International Conference on Electrical Engineering and Informatics (MICEEI), UNHAS, 27 - 29 October 2010.
7. Endra, “Comparison of random gaussian and partial random fourier measurement in compressive sensing using iteratively reweighted least square reconstruction”, International Conference on Soft Computing, Intelligent System and Information Technology 2010, Petra, 1-2 Juli 2010.

Publikasi

8. Endra, Donny, Bima Putra, Rico Then, “Discrete wavelet transform – k-nearest neighbors method for speaker recognation”, International Conference on Quality in Research 11th, UI, 3-6 Agustus 2009.

9.REKONSTRUKSI CITRA DARI PENCUPLIKAN KOMPRESIF”, Jurnal Teknik Komputer Binus, 2008.

10.Runge-kutta - split step fourier method for solving generalized nonlinear schrodinger equation in nonlinear fiber optics, Makassar International Conference on Electrical Engineering & Informatics, 13 -14 November 2008.

11.Simulasi perambatan ultra-short pulse pada nonlinear fiber optik, Seminar Nasional Aplikasi Fotonika, ITS, 24-25 April 2008.

12.Simulasi perambatan pulsa gaussian di dalam nonlinear fiber optik, Jurnal Teknik Komputer Universitas Bina Nusantara, 2007.

13.A comparison of Discrete Wavelet Transform and Discrete Wavelet Transform Techniques in Audio Compression, International Conference on Optics and Laser Application, UI, 5-7 September 2007.

14.Metode split step fourier untuk menyelesaikan nonlinear schrodinger equation pada nonlinear fiber optik, Seminar Nasional Ilmu Komputer dan Teknologi, UI, 29-30 Januari 2007.

15.Study of super-gaussian pulse propagation in nonlinear fiber optics, International Conference on Quality in Research 9th, UI, 6-7 September 2006.

16.Perancangan IIR Hilbert tranformers menggunakan DSP’s TMS320C542, Seminar Nasional B erbasis Fisika, ITB, 31 Agustus 2006.

Publikasi

17. Study of higher order dispersion effectd on soliton propagation in dispersion shited fiber, International Workshop on Nonlinearity, IPB, 7 Juni, 2006.
18. Adaptive IIR Filter untuk active noise canceller menggunakan DSP's TMS320C542, Seminar Nasional SIIT, Universitas Petra, 28-29 Juli 2005.
19. Study of higher order dispersion effects on soliton interaction in disepersion shifted fiber, International Conference on Quality in Research 8th, UI, 9-10 Agustus 2005.
20. Penggunaan DSP's TMS320C542 untuk simulasi pengiriman data melalui frekuensi voice-band menggunakan QAM, Seminar Nasional Komputer dan Sistem Intelijen, Universitas Gunadarma, 24-25 Agustus 2004.

Research Area

1. Compressive Sensing.
2. Dictionary Learning for Sparse Representation.
3. Compression and Coding for Audio, Video & Multimedia.
4. Wavelets and Its Applications.
5. Digital Signal Processing Applications.
6. Nonlinear Fiber Optics (Soliton).