

# Ir. Budi Rahardjo, MSc., PhD.

## Objective

Teacher, entrepreneur, writer, expert in information & network security.

## Birthdate

Yogyakarta, 20 Oktober 1962

## Addresses

### Office #1:

Lab Design Pusat Mikroelektronika  
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Gedung Cyber 7th floor  
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## Working Experience

January 2006 IT Standarization

### Head of Team

- Develop National Standar for IT competence in Computer Network, System Administration, and Technical Support

2003 – 2005 Recruiter Various companies

### Evaluate IT Human Resources for various companies and Indonesian Government Institutions

- Assist Bank Rakyat Indonesia (BRI) in recruiting human resources for auditor, system engineer, system analyst, programmer and general IT staff. (2003 and May 2004)
- Recruitment for Badan Regulasi Telekomunikasi Indonesia (BRTI), a Telecommunication Independent Regulatory Body (2003)

January 2003 – September 2004 - Director of R&D ITB ITB

**Director of Research & Development Center  
on Industry and Information Technology  
Institut Teknologi Bandung**

- Manage R&D directions of various Research Groups at ITB

March 2002 – now      security consultant      major institutions in Jakarta

**Security Consultant**

- Have given more than 50 security presentations all over Indonesia for public and in-house. Clients include Bank Indonesia (BI), Bank Mandiri, Bank Rakyat Indonesia (BRI), Bank Negara Indonesia (BNI), Bank Syariah Mandiri, BTN, Indonesia Power, Indosat, Newmont, various IT companies. Clients are in mostly in Banking, Telecommunication, Manufacturing,
- Penetration Testing for PT Newmont
- Internet Banking Penetration Testing for Bank Mandiri
- Complete security audit for Bank Negara Indonesia (BNI) (2005), Bank Rakyat Indonesia (2004), Bank Indonesia (2002, 2005)
- Providing security training (with INDOCISC) for internal Bank Mandiri staff: May 2003
- Investigating a security incident at a major bank in Jakarta (I cannot provide the name of the bank): January – February 2006
- Investigating a security incident at another major bank in Jakarta (I cannot provide the name of the bank): March – April 2002
- Complete security audit (with INDOCISC and LPPM ITB) of a large bank in Jakarta: August 2002 – December 2002

Mei 2001 – now      consultant      Deperindag

**Consultant on IT Human Resources**

- Develop “Rencana Induk Pengembangan Industri Teknologi Informasi dan Elektronika: Aspek Sumber Daya Manusia” for Departemen Perindustrian dan Perdagangan (Ministry of Industry and Trade).

2000-now      tech consultant      Cyberlaw

**Member of team to develop Cyberlaw in Indonesia, with UNPAD.**

- Responsible for the technology aspect of (draft of) cyberlaw, which unfortunately up to this point has not made it into a law.

1999 – now      motivator, evangelist, web master      Bandung High Tech Valley

**Bandung High Tech Valley, an initiative by Ministry of Industry and Trade**

- One of Bandung High Tech Valley motivators, organizers, evangelist
- Mailing list manager and web master of BHTV web site  
<<http://www.bhtv.web.id>> and <<http://indonesia.elga.net.id/bhtv>>

October 200 – now      Tech Writer      Various publications

**Tech writer for some publications (conventional & new media/portal)**

- Regular (monthly) columnist at Infolinux, Koran Tempo, and various portals (M-Web, Satunet).
- Unpublished and some published articles and books are available at my homepage <http://budi.insan.co.id>

October 2000-now      CTO      Various Start-up Companies

**Chief Technology Officers of several start-up companies, such as**

- PT INDO CISC
- PT Sumber Daya Telematika Indonesia
- PT Insan Infonesia

April 2000      Technology & Security consultant      Indosign, Jakarta

**Technology and security consultant for Indosign, the first commercial Certificate Authority company in Indonesia.**

April 2000      Security consultant      PCI, Jakarta

**Security consultant for designing PT Gresik network blueprint, a project managed by PT Praweda (PCI).**

April 1999-June 2001      PIKSI, ITB      Bandung

**Head of "Operasi & Pelayanan Teknologi Informasi" (IT Services) UPT Komputer PIKSI ITB, responsible for providing Information Technology-related services for ITB.**

1998 – September 2005      Top Level Domain ID Admin      Bandung

**Top Level Domain ID (TLD-ID) Admin**

- The .ID domain admin. Delegated from IANA/ICANN

Nov 1998 - Feb 1999      Technical Consultant      Jakarta

**Computer networks specialist for Marine Resource Evaluation and Mapping (Maremap) Project (an ADB project)**

- Computer network specialist. Designing a method to enhance data access and sharring.

1997-2002      Lab ELKA, EL, ITB      Bandung

**Secretary of Laboratorium Elektronika dan Komponen (ELKA), Electrical Engineering, Institut Teknologi Bandung (ITB)**

- Managing the *Electronics and Components Laboratory*, EE Department, ITB

1997-2005      RI-Net      Jakarta

**Member of "Tim Pelaksanan Aplikasi RI-Net"**

- Coordinating RI-Net's open e-mail and world wide web system for Government officials (President, Ministers, Governors, etc.), including managing their network security systems.
- Managing the technical staff.

1997-now PPAU Mikroelektronika, ITB Bandung

**Researcher (October 2001-now)**

**Vice Head / Secretary (1997-October 2001)**

**Director of Programme (2000-October 2001)**

**Director of Management Information Systems (1997-2000)**

**Pusat Penelitian Antar Universitas (PPAU) Mikroelektronika  
“Inter University Research on Microelectronics”**

- Manage PPAUME programme and information system (MIS)
- Teach and research in the field of VLSI design
- Develop and maintain “IC Design Lab”, including maintaining the hardware, software, and CAD Tools
- Research in formal methods in hardware design, asynchronous circuits, computer networks, security, Information Technology, and Electronic Information Systems (EIS).

1997-now Electrical Engineering Dept., ITB Bandung

**Teaching Staff**

- Teach and research in the “Electronics and Components Lab”, Electrical Engineering Dept., Institut Teknologi Bandung. Teach at Faculty of Graduate Studies.
- Courses taught:
  - EL 203 Foundation of Electrotechnics (1998, 1999),
  - EL 208 Digital Techniques [Switching Theory] (1999),
  - EL 424 Pattern Recognition (1997,1998),
  - EL 494 / EC7030 Formal Methods in Hardware Design (1999 – 2004),
  - EL 705 Advanced Digital Design, VLSI Testing (grad level, 1998),
  - EL 695 / EL 776 / EC5010 / EC7010 Security of Information System (grad level, 1998 – 2005),
  - EL2001 Introduction to Programming (with C++) (undergrad level, 2003 – 2005).
- Various projects, final projects, thesis of my students include
  - Design and implementation of streaming data sniffer
  - Mobile agents applications on network discovery, online auction (implemented as Java applets)
  - The (in)security of VoIP
  - Study on Certification Authority implementation (using Open CA)
  - Mail Transport Agent protection (tools to monitor spam and mailbomb)
  - Web-based log analyzer
  - Web-based network / packet monitor
  - Implementation of RSA and IDEA on DSP

1997-now ID-CERT Indonesia

**Indonesia Computer Emergency / Incident Response Team**

- Initiate the formation of Indonesia CERT
- Contact person for security in computer networks and the Internet for “.id” domain. Provide security information and tutorials for various institutions.
- <http://www.cert.or.id>  
<http://www.paume.itb.ac.id/rahard/id-cert>

1996-now                      PT Insan Infonesia                      Bandung, Indonesia

**Director of Technology**

- Handling the technology development including hardware & software development, Intranet solutions, telecommunications, and other high-tech incubators and ventures.

1996-1997                      TRILabs                      Winnipeg, Canada

**Post-doc researcher at Telecommunications Research Laboratories**

- Research in the field of Network Computing
- Developed “Web-based Virtual Storage Environment” for Network Computers (such as the Javastation, WebTV, and other set-top boxes).

1996-1997                      Electrical and Computer Eng., U of MWinnipeg, Canada

**Teaching staff**

- Taught “*24.422 Switching Theory*” for fourth-year students in the Electrical and Computer Engineering Department of University of Manitoba, Canada.

1995-1996                      TRILabs                      Winnipeg, Canada

**Graduate Student Researcher**

- Modeling computer protocol (multimedia protocol) and hardware (an asynchronous CounterFlow Pipeline Processor) in SDL.

1989-1996                      Computer Services, U of ManitobaWinnipeg, Canada

**UNIX System Administrator**

- Responsible for software in the UNIX systems used by most students.
- Part of the World Wide Web team development

1987-1997                      Electrical and Computer Eng., U of M, Canada

**System Administrator and Research Assistant**

- Responsible for UNIX system software, such as sendmail, for the whole Department.
- Responsible for VLSI CAD Tools such as Synopsis. Developed tutorials for some VLSI CAD Tools, including VXI-based test systems.

1989-now                      Internet and network duties                      Internet

**Sysadmin, webmaster, manager**

- Vice President, Research and Development, Global Network Communications (San Francisco, USA)
- Director of Technology, Hardware & Software Developer for PT Insan Komunikasi (Bandung)
- Director of Technology dari Indonesia Forum [USA], a cybercommunity forum for Indonesians
- Domain admin for various web sites: Bandung High-Tech Valley, Indonesia Forum, Global Network Link, Bohol Network, Airland, Isnet, Insan Infonesia, Indonesian Homepage, IDNIC, IDCERT, and many other web sites.
- Maintenance of several mailing lists, including PAU-MIKRO mailing list which was founded in 1987 and still a “de facto” mailing list to discuss Internet and computer technology in Indonesia.
- Member of Paguyuban ITB-net, Campus Backbone.
- 1989-1997 - Maintener of Bison UUCP Network (Manitoba, Canada) which provided free e-mail and Usenet news to hundreds of users in Winnipeg, Canada.

## Formal Education

- |  |                            |                  |
|--|----------------------------|------------------|
| 1991-1997  | University of Manitoba     | Winnipeg, Canada |
| <ul style="list-style-type: none"> <li>• PhD. “Formal Verification for Asynchronous Systems”.</li> </ul>                                   |                            |                  |
| 1987-1990  | University of Manitoba     | Winnipeg, Canada |
| <ul style="list-style-type: none"> <li>• MSc. “System for Analysis of Verbal Behaviour of Speakers with Neurological Diseases”.</li> </ul> |                            |                  |
| 1981-1986  | Institut Teknologi Bandung | Bandung          |
| <ul style="list-style-type: none"> <li>• Sarjana Teknik Elektro (Ir.), “Design and Development of a Z80 ROMULATOR”.</li> </ul>             |                            |                  |

## Interests

Computers (hardware, software, networks, operating system, programming languages, information security, human-computer interaction, multimedia, intelligent agents, eCommerce), reading, music (including computer music), travelling, high-tech business, and teaching.

## Skills

- Programming in C, C++, SQL, Perl, Java, Tcl/Tk, sh, and some assembly languages
- Document processing with HTML, TeX, LaTeX, troff (groff)
- Telecommunications and VLSI designs with SDL, PROMELA, VHDL, and Verilog. I have "Logic Synthesis with VHDL" and "VHDL System Simulation" certificate from Synopsys and Canadian Microelectronics Corporation (September, 1994).
- Internet design and programming (World Wide Web, Gopher, FTP, and other information systems) and security
- Ability to install and manage UNIX systems (SunOS, Solaris, Linux, FreeBSD, HP, OSF/1)

## Achievements

- Smartcard programming. I have completed smartcard training "*Foundation SmartCard Tech, MPCOS, and GPK Training,*" Gemplus, Jakarta, 20-23 July, 1999.
- Manage "The Ultimate Indonesian Homepage", **the first and most comprehensive Indonesia web site. (Directhit reported number one on their list.)** Previously it was located at the University of Manitoba, currently it is located at <http://indonesia.insan.web.id>
- Designed and deploy security system for the on-line result (high performance web site) of Indonesian 1999 Election. (May - August 1999). The system is capable of handling 1 million web requests per day (limited by 1999 technologies).
- Designed and deploy RI-Net: one of Telematika Indonesia's flagship applications which provide open email to Government officials, and web site (1997-1999).
- Author of "Memahami Teknologi Informasi: Menyikapi dan Membekali Diri Terhadap Peluang dan Tantangan Teknologi Informasi," Elex Media Komputindo, 2002.
- Author of "*Buku Pegangan Sistem UNIX dan Internet,*" 1994, Open Pathways (USA). (2<sup>nd</sup> edition is available in Indonesia)
- Designed and implemented "UMUID", a Global Userid Database for Computer Services University of Manitoba, Winnipeg, Manitoba, Canada.
- Developed some free utilities and programs (available over the Internet) which can be used to manage e-mails and mailing lists. Examples are ASER and b-server (mail-based archive server), brn (threader news reader), lpctool (lpc printer controller for X window)
- Was a maintainer for official perl for MS-DOS

## Organization Achievements / Affiliation

- Member of "Panitia Teknik Perumusan Standar Nasional Indonesia (SNI) Transaksi Informasi Melalui Media Elektronik," Kementerian Komunikasi dan Informasi, 2004. (No: 41A/KEP/S.KOMINFO/7/2004.)
- Member of The Institute of Electrical and Electronics Engineers Inc. (IEEE), the largest professional electrical and electronics engineers organization in the world.
- Was the president of Indonesian Students Group (ISG), Winnipeg, Manitoba, Canada
- Member of "Majelis Syuro ISNET", Islamic Network, the first Indonesia cyber community (1980s).
- President of "Himpunan Mahasiswa Teknik Elektro", Institut Teknologi Bandung (HME ITB), Electrical Students Association, 1984.
- SMAN 1 Bandung, OSIS and Autodidac discussion group
- "Matinya Bisnis Telekomunikasi Indonesia," Bisnis Indonesia, 1 Februari 2006.

## Selected Recent Publications

- B. Rahardjo, A. Triwidada, M. Sutarman, "Security Evaluation Checklist." Proceedings of INA-CISC 2005: Indonesia Cryptology and Information Security Conference. March 30-31, 2005, pp. 135-138.
- Budi Rahardjo, "Nama Domain dan Beberapa Aspek Hukum Yang Terkait," Pusat Pengkajian Hukum (PPH) Newsletter No. 57, Juni 2004.
- Budi Rahardjo, "Pemanfaatan Teknologi Informasi di Perguruan Tinggi". Makalah untuk e-Government Summit "Sosialisasi Mengenai Implementasi Penerapan UU No. 19 Tahun 2002 Tentang Hak Cipta; Pemerintah Sebagai Panutan Dalam Ketaatan Lisensi Peranti Lunak", Tim Koordinasi Telematika Indonesia, Novotel Coralia Hotel, Bogor, 9 Maret 2004.
- Budi Rahardjo, "Selamatkan Masa Depan Indonesia Dengan Sains dan Teknologi". ITB Fair 2004, Aula Barat ITB, 25 Februari 2004.
- Budi Rahardjo, "Apakah Negara Berkembang Membutuhkan Perlindungan HaKI?" Lokakarya Terbatas tentang Hak Kekayaan Intelektual, Pusat Pengkajian Hukum (PPH) dan Pusdiklat Mahkamah Agung, Jakarta, 10-11 Februari 2004.
- Budi Rahardjo, "Science dan Technology Park di Perguruan Tinggi". (presentation material, related paper Presented at Workshop "Model Penerapan Hasil Penelitian di Perguruan Tinggi", Pusat Pembinaan dan Pengembangan Program Diploma (P4D), Ciwaruga, Bandung, 11 June 2003.
- Budi Rahardjo, "Pelajaran Dari Mendirikan Perusahaan Startup. (Lessons learned from Starting-Up) ". Presented at Lokakarya Pusat Inovasi LIPI, Bandung, 5 June 2003.
- Budi Rahardjo, "Memahami Teknologi Informasi: Menyikapi dan Membekali Diri Terhadap Peluang dan Tantangan Teknologi Informasi," Elex Media Komputindo, 2002. (new book)
- Lazuardi Nasution, Budi Rahardjo, "Denial of Service: Proof of concept," *Proceedings of Asia-Pacific Conference on Communications (APCC 2002)*, Bandung, pp. 301-303, September 17-19, 2002.
- Budi Rahardjo, "Arsitektur Internet Banking Yang Terpercaya: Trusted Internet Banking Architecture," white paper for INDOCISC ([www.indocisc.com](http://www.indocisc.com)), May 2002.
- Budi Rahardjo, "Bisnis Open Source," in Richardus Eko Indrajit eds., "Open Source Linux: Membangun Kekuatan Baru Teknologi Informasi Dunia," Elex Media Komputindo, 2002.
- Budi Rahardjo, "A Story of Bandung High-Technology Valley," presented at "Seminar Nasional Industri Berbasis Teknologi Informasi dan Telekomunikasi," Aula Barat, ITB, Bandung, 11 May 2002.
- Budi Rahardjo, "Kejahatan Internet yang belum terjangkau," Koran Tempo, 10 Juni 2001.
- Budi Rahardjo, "Bisnis Open Source," presented at National Open Source Workshop and Conference (NOSWOC 2000), Universitas Ahmad Dahlan, 25-26 September 2000.

- Budi Rahardjo, Intan Achmad, "Challenges and Opportunities Facing Academic Institutions in Asia Pacific," invited keynote speech at Symposium on Theory and Applications of Communication and Information Technology (TACIT 2000), Bangkok, Thailand, August 24-25, 2000.
- Budi Rahardjo, "Permasalahan HaKI Sekitar Electronic Commerce," InfoHaKI, Vol. 1, No.5, Maret 1999. (Title translation: Intellectual Property Issues around Electronic Commerce.)
- Budi Rahardjo, "Penggunaan Formal Methods Dalam Disain Perangkat Keras," Technical Report, PPAUME TR 1999-01, PPAU Mikroelektronika ITB, 1999. (Title translation: Formal Methods in Hardware Design.)
- Budi Rahardjo, "Mengimplementasikan Electronic Commerce di Indonesia," Technical Report, PPAUME TR 1999-02, PPAU Mikroelektronika ITB, 1999. (Title translation: Implementing Electronic Commerce in Indonesia.)
- Budi Rahardjo, "*An Introduction to Hardware Equivalence Checking*," The Third Workshop on Electro Communication and Information (WECI-III), Institut Teknologi Bandung, March 3-4, 1999.
- Budi Rahardjo, "Keamanan Sistem Informasi Berbasis Internet," 1998. Draft of a book which is available online: <<http://www.paume.itb.ac.id/rahard/id-cert/handbook.pdf>>
- Budi Rahardjo, "Keamanan Sistem Internet," Pikiran Rakyat (daily newspaper), 3 March 1998.
- Budi Rahardjo and Richard Mengko, "In Search for a Personal Assitant: a quest in managing our electronic junk," presented at *the NEDO/BPPT International Seminar on Electronics and Information Technology*, Jakarta, 17 February 1998.
- Budi Rahardjo, "*Keamanan Sistem Informasi: Beberapa Topik Keamanan di Internet*", Konferensi Informasi Infrastruktur Nasional, ITB, 1997.
- Budi Rahardjo dan Dian Sukma Rahayu, "Mengamati Karakteristik Milis Indonesia," *INFOKOMPUTER*, Vol. 1, No. 9, pp. 12-15, 15 November 1997.
- B. Rahardjo and R.D. McLeod, "Design and analysis of a counterflow pipeline processor in SDL," *Journal of Microelectronics and System Integration*, 4(1), pp. 33-41, 1996.
- B. Rahardjo, J. F. Peters, and R. D. McLeod, "Communicating Processes in designing asynchronous circuits," *IEEE Aerospace and Electronic Systems Magazine*, pp. 8-11, 1995.
- B. Rahardjo and R. D. McLeod, "Verification of speed-independent asynchronous circuits with protocol validation tools," in *Proc. Of IEEE Pacific Rim Conference on Communications, Computers, and Signal Processing*, pp. 257-260, 1995.
- B. Rahardjo, "SPIN as a hardware design tool," in *First SPIN Workshop*, Montreal, Canada, October 1995.
- B. Rahardjo, "Hardware Equivalences," Technical Report UMECE TR-95-002, Electrical and Computer Engineering, University of Manitoba, 1995.

## Recent Presentations / Lectures / Talks

- B. Rahardjo, "Asynchornous Hardware Design: an overview," Technical Report, UMECE TR-92-215, Electrical and Computer Engineering, University of Manitoba, 1992.
- Budi Rahardjo, "*Buku Pegangan Sistem Internet*", Open Pathways, 1993.

I have presented quite a number of talks, presentations, and lectures. The following is a list of recent (selected) public talks and presentations (outside formal presentations at the University or internal trainings). An up-to-date version of this list is available from my web site <http://budi.insan.co.id/presentations>

1. "GNU/Linux Solusi Security dan HaKI," UNIKOM, Bandung, 24 January 2006.
2. "No ICT Without ICT: Integrated Circuit Technology (ICT) as the basis for leading edge Information & Communication Technology (ICT)," presented at IC Design Workshop organized by ITB Microelectronics Center, Bandung, 26 Juli 2005.
3. "I Crypt, You Crypt." Invited Talk at Indonesian Cryptology and Information Security Conference, organized by Lembaga Sandi Negara (LSN) and IECI, Jakarta, 30-31 March 2005
4. "Teknologi Informasi dan Cybersex." Presented at STT Telkom, Bandung, 8 Maret 2005.
5. "Security Implementation on Mission Critical Applications." Presented at Software Developers Day, organized by ASPILUKI, at Gedung Bidakara, Jakarta, 2 March 2005.
6. "Ilmu dan Seni Keamanan Informasi: Theory and Practice." Kuliah Terbuka di Politeknik EL ITS, Surabaya, 8 Januari 2005.
7. "The disappearance act of information bandits." Keynote speech at "Seminar Network Security dan Cryptography," organized by Himpunan Mahasiswa Teknik Elektro (HME) ITB, Aula Barat ITB, 11 Desember 2004.
8. "Kebijakan dan Strategi Pengaturan Terhadap Infrastruktur ICT Vital," presented at "Seminar Nasional Tentang Cybercrime," Kementerian Komunikasi dan Informasi, Hotel Ibis Tamarin, Jakarta, December 7<sup>th</sup> 2004
9. "Novelties On The Internet Technology and Services," Presented at "Techno Pre-Eminence 10th Conference & Exhibition 2004" (TPE-2004), RISTI, PT Telekomunikasi Indonesia, December 2<sup>nd</sup> 2004.
10. "Tren Teknologi Telekomunikasi dan Kinerja Keuangan Perbankan," presented at InfoBank's Seminar "Maximizing Bank's Profit through Integrated Telecommunication Technology," Shangri La Hotel, Jakarta, 25<sup>th</sup> November 2004.
11. "e-security: keamanan teknologi informasi." Presented at "Cybercrime di Bidang Postel", Jakarta, 7 September 2004.
12. "Pemanfaatan Teknologi Informasi Untuk Promosi Destinasi Wisata." Presented at "Pelatihan Promosi Destinasi Wisata", Kelompok Penelitian dan Pengembangan Kepariwisata (P2PAR), Institut Teknologi Bandung, Hotel Sawunggaling, 3 Agustus 2004.

13. "Pengantar Nama Domain", presented at National Internet Conference and Education (NICE), Hilton, Jakarta, July 2004.
14. "Pemanfaatan Teknologi Informasi di Perguruan Tinggi." Presented at "Sosialisasi Mengenai Implementasi Penerapan UU No. 19 Tahun 2002 Tentang Hak Cipta; Pemerintah Sebagai Panutan Dalam Ketaatan Lisensi Peranti Lunak", Tim Koordinasi Telematika Indonesia, Novotel Coralia Hotel, Bogor, 9 Maret 2004.
15. "Perluakah Perlindungan HaKI Bagi Negara Berkembang?" Lokakarya Terbatas Tentang Hak Kekayaan Intelektual Pusat Pengkajian Hukum (PPH) dan Pusdiklat Mahkamah Agung, 10-11 Februari 2004.
16. "Perkembangan Teknologi e-Learning." Presented at Seminar and Workshop "Proses e-Learning di Perguruan Tinggi", TPB ITB, Bandung, 11 Desember 2003.
17. "Open Source vs. Commercial Software: an academic view." Presented at Business Software Alliance Seminar, Hyatt, Jakarta, 14 November 2003.
18. "Membangun Konvektivitas Yang Berkualitas." Presented at Ipteknet Seminar, Hotel Sari Pan Pacific, 23 October 2003.
19. "The Need for Disaster Recovery Center." Presented at Hotel Mulia, 8 October 2003. Organized by t-inc.
20. "Perubahan Orientasi Penelitian di Perguruan Tinggi." Presented at P4D, Ciwargua - Bandung, 15 September 2003.
21. "Jaringan Inovasi." Presented at BPPT Seminar: "Reviving National Industry Through Technology and Business Innovation," BPPT, Jakarta. 26 August 2003.
22. "Teknologi VoIP." Presented at the Law Faculty of Universitas Trisakti Jakarta, 29 Juli 2003.
23. "Peranan Teknologi Informasi Dalam Bisnis Kontemporer Lokal Yang Berorientasi Global". Presentation at "Seminar Bisnis Kontemporer Lokal Dalam Persaingan Global," 26 July 2003.
24. "Potensi Linux: Software untuk Pendidikan, Bisnis, dan Pribadi." Presented at Bandung Linux Day 2003.
25. "Pelajaran Dari Mendirikan Perusahaan Startup. (Lessons learned from Starting-Up)". Presented at Lokakarya Pusat Inovasi LIPI, Bandung, 5 June 2003.
26. "Aspek Teknis Nama Domain." Presented at Seminar "Memformat Arah Regulasi Internet Indonesia. Studi Kasus: Sengketa Nama Domain Mustika-Ratu.com". 20 May 2003.
27. "HaKI di bidang Teknologi Informasi: Peluang dan Hambatan." Presented at LIPI Jakarta. 7 May 2003.
28. "Peluang dan Hambatan E-Commerce di Indonesia." Presented at Seminar Akuntansi UTAMA 2003, Fakultas Ekonomi Universitas Widyatama, 3 May 2003.
29. "Menjembatani Kesenjangan Digital di Indonesia: Briding the Digital Divide." Presented at Habibie Center, 14 January 2003.
30. "Pengamanan Cyber Banking: Memberikan keamanan dan kenyamanan nasabah", presented at Cyber Banking Seminar,

- organized by Sekolah Tinggi Teknologi Indonesia, Holiday Inn, Bandung, 18 December 2002.
31. "Rancangan abc eBooks." Presented at "Seminar Sehari: Kiat Menulis Buku dan Informasi Ilmiah," organized by Penerbit ITB Departemen Fisika ITB, at Aula Barat ITB, 20 August 2002.
  32. "Cyber University, Teknologi Informasi, dan Perguruan Tinggi di Indonesia." Presented at "Seminar Cyber University" organized by Universitas Winaya Mukti, Jatinangor, 19 Agustus 2002.
  33. "Pemanfaatan Teknologi Informasi dalam Promosi Pariwisata." Hotel Sawunggaling, Bandung, 21 June 2002.
  34. "Intrusion Detection System," presented at Inixindo Seminar, Holliday Inn, Bandung, 14 March 2002.
  35. "Introduction to Network Security," presented at Cisco Seminar, Shangri-La hotel, Jakarta, 13 March 2002.
  36. "Prospek Penggunaan Open Source Untuk Skala Perusahaan," Workshop at Risti, Bandung, 12 March 2002.
  37. "Application Service Provider (ASP) security." Presented at Seminar Nasional, ASP, Implementasi dan Implikasinya Terhadap Dunia Usaha Indonesia, University Center UGM, Infotech 2002, Yogyakarta, 6 February 2002.
  38. "Tanggapan terhadap RUU Teknologi Informasi (Cyberlaw)," Holliday Inn, Bandung, 1 November 2001.
  39. "E-Defense," presented at Hankam, 29 October 2001.
  40. "The Utopia of IP (Intellectual Property) Regulation in Indonesia," presented at TPE Connectivity, Jakarta, October 10, 2001.
  41. "Ecommerce & Industri Kimia" presented at Seminar Nasional & Pameran Industri Kimia 2001, organized by AMISCA, Aula Barat, ITB, September 24, 2001
  42. "Aspek Teknologi dan Security dalam Internet Banking," presented at "Internet Banking: Implementasi & Tantangan ke depan" seminar, organized by Banking Research and Regulation Directorate, Bank Indonesia, Jakarta, August 13, 2001.
  43. Overview of Network Security, presented at End to End Secure Network Solution seminar, Hotel Aryaduta, Jakarta July 25, 2001.
  44. Instructor for INDOCISC Hands On Network Security Workshop, Jakarta, 17-18 July 2001.
  45. Security of Internet Banking, presentation in Hotel Papandayan, Bandung, organized by Faculty of Law UNPAD and Bank Bali, Bandung, 13 July 2001.
  46. "Perkembangan Teknologi Informasi Serta Relevansinya Terhadap Kepentingan Nasional Indonesia", a presentation at Cyberlaw Seminar organized by Faculty of Law, Trisakti University, Jakarta, 12 July 2001.
  47. Instructor for LAPI Executive Workshop, with focus on IT trends, Bandung, 11 July 2001

48. Presentation at Seminar Nasional Jaringan Komputer II, organized by Technic Study Club, STMIK Dipanegara Makassar. My presentation title is "Membangun E-Government", 19 May 2001.
49. Millenium Internet Roadshow Bandung, hotel Jayakarta, 3 May 2001.
50. "Bandung High Tech Valley," presented at "Indonesia Tutorial on Information Technology," Universitas Advent Indonesia, Bandung, 22 April 2001.
51. "Membangun Indonesia Melalui Teknologi Informasi," presented at Indocomtech 2001, Hyatt, Bandung, 12 April 2001.
52. "The Future of .ID Domain Management," presented at Domain Solusi Perdana (DSP) & Speednames partnership, Jakarta, 4 April 2001.
53. "Internet Security," presented at "Seminar Sehari Aplikasi Teknologi Informasi dan Pemasaran", B4T, Bandung, 13 March 2001.
54. Multimedia, Internet and the future of it, presented at LPP Ariyanti, Bandung, 10 March 2001.
55. Talk at PUSTENA, Salman, ITB, "Pemanfaatan Teknologi Informasi Sebagai Media Dakwah, Bisnis, dan Pengembangan Budaya, 11 February 2001.
56. Microsoft discussion on Intellectual Property, 6 February 2001.
57. Talk show at the launching of Link.net in Yogyakarta, 17 January 2001.
58. Presentation on Bandung High Tech Valley at "Himpunan Mahasiswa Fisika Teknik" (Applied Physics Student Union), 18 November 2000.
59. Presentation at Bandung IT Expo 2000 (BITE 2000) and at PUSTEKKOM & SEAMOLEC & RISTI Teleconferencing Seminar, 15 November 2000.
60. Presentation at Sumpah Internet Pemuda (SIP) 2000, Diknas, Jakarta. Presented IT opportunities abroad, 28 October 2000.
61. "Internet in Indonesia," presented at AMINEF (American Indonesian Exchange Foundation) Seminar, 19 October 2000.
62. "SDM-IT," presented at Dept of Commerce Indonesia, Jakarta, 18 October 2000.
63. "Mengadopsi Pola Open Content," presented 14 October 2000 at Lokakarya Peningkatan Proses Pembelajaran Dengan Pemanfaatan Teknologi Informasi, DUE-like project, TPB ITB.
64. "Routing Internet," presented at SCOMDEX Surabaya, 12 October 2000.
65. "Into to BHTV (Bandung High Tech Valley)," presented 21 September 2000 at LAPI ITB Seminar, Bandung.
66. "Sekuriti belanja online," presented at the launching of GetEkstra.com, Jakarta, 12 September 2000.
67. "Challenges and Opportunities Facing Academic Institutions in Asia Pacific," invited keynote paper, presented at TACIT 2000, Bangkok, Thailand, 25 August 2000.

68. "Teritori di Cyberspace: Antara Virtualitas dan Realitas," presented at Cyberlaw seminar "Regulasi Cyberspace di Indonesia", Grand Hotel Preanger, Bandung, 29 July 2000.
69. "Beberapa Pemikiran Tentang E-Commerce," presented at Cyberlaw seminar, Hotel Jayakarta, Bandung, 22 July 2000.
70. "Pengembangan SDM Industri Teknologi Informasi dan Software untuk BHTV," presented at "Seminar Sekolah Kejuruan Menengah", Cimahi, 21 July 2000.
71. "Peranan Linux dalam Pengembangan Sistem Informasi," presented at Linux Seminar, Jakarta, 19 July 2000.
72. "Internet Business," presented at Rotary club, Jakarta, 14 June 2000.
73. "Electronic Payment System," presented at "Seminar Sehari – Pengembangan Aplikasi Internet dalam E-Commerce", Hotel Menara Peninsula, Jakarta, 31 May 2000.
74. "Some Thoughts on e-Business" presented at the launching of bisik.com, organized by Suara Mahasiswa Universitas Indonesia, Depok, 17 May 2000.
75. "Beberapa Topik Keamanan Intranet & Internet (Issues on Intranet & Internet Security)" presented at National Seminar, "Sistem Operasi Jaringan Masa Depan" (Future Network Operating System), organized by Laboratorium Arsitektur dan Jaringan Komputer Teknik Informatika ITS, Surabaya, 13 May 2000.
76. Seminar Nasional Jaringan Komputer, "E-commerce Dan Otonomi Daerah Dengan Sistem Jaringan Komputer dan E-Commerce", organized by Technic Study Club (TSC), STMIK Dipanegara, Makassar, South Sulawesi, 29 April 2000.
77. Open lecture, "Technopreneur," at STMIK Dipanegara Makassar and at Electrical Engineering Students Org., Universitas Hasanuddin, Makassar, 28 April 2000.
78. "Secure Electronic Commerce," presented at GE Indonesia E-Commerce workshop, Le-Meridien Hotel, 18 April 2000.
79. "Perkembangan Internet dan e-commerce" (Internet development and e-commerce), Program Pendidikan Lanjutan Ilmu Hkum (PPLIH), Fakultas Hukum (Law Faculty), Universitas Indonesia, 14 April 2000.
80. "Network Security in Indonesia," APJII & ISS Security Seminar, MBICC, Jakarta Stock Exchange, 12 April 2000.
81. "Building Your Truly Secure Enterprise Network," will be presented at Miller Freeman's Indonesia Connectivity 1999 conference, Regent Hotel, Jakarta, 12 October 1999.
82. "Aplikasi IT untuk Usaha Kecil Menengah" (IT applications for Small and Medium Enterprises), presented at "Lokakarya Peranan IT Bagi Pengembangan IKM" (Workshop on Roles of IT in SME Development), Savoy Homan Hotel, Bandung, 25-26 September 1999.
83. "Keamanan dalam Electronic Commerce" (E-commerce security), presented at Infokomputer seminar, Jakarta, 31 August 1999.

84. "Meningkatkan Kinerja dengan menggunakan Linux," presented at Linux Seminar, Millenium Hotel, Jakarta, 10 August 1999.
85. "Linux OS Reformasi," presented at "Linux & Open Source: Solusi Hemat, Tepat dan Andal," 22 April 1999, Gedung Telkom, Jakarta.
86. "Millenium bug, Y2K," presented at Bandung Rotary Club meeting, Hotel Savoy Homan, 1999.
87. Speaker at PT Telekomunikasi Indonesia (Divisi Multimedia) electronic commerce seminar, "*Peluang dan Pemberdayaan Dunia Usaha Memasuk Era 'E-commerce' Melalui Kemitraan Bisnis Telkom,*" Hotel Sahid, Jakarta, 1-2 December 1998. Topic: security
88. Presenter at PIKSI, ITB short course, "*Implementing Internet Security,*" Sheraton Hotel Bandung, 24-26 November 1998.
89. Invited Lecturer at "*NEDO/BPPT International Seminar on Electronic and Information Technology*", Jakarta, 17 February 1998. Title of lecture "In Search for a Personal Assistant: a quest in managing our electronic junk."