

Dody Dharma

Postgraduate Researcher
School of Computing, University of Leeds

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Education

University of Leeds Postgraduate Researcher	Sept.2019 - Present
Institut Teknologi Bandung M.Sc. in Informatics Thesis: <i>Interactive Material Point Method-based Fluid Simulation for Mobile Devices</i>	Aug.2011 – Jul.2013
Institut Teknologi Bandung B.Eng. in Informatics. Final Project: <i>RPC based Application Server & API Development for Malaria Observation System and Endemic Surveillance</i>	Aug.2006 – Jul.2010

Research

<i>Accelerating fully coupled fluids-deformable solids simulation for interactive application with Deep Neural Network.</i> Postgraduate research, University of Leeds.	Sept.2019 - Present
<i>Multi-GPU System for Massive MPM Fluid Simulation.</i> P3MI 2018	Apr – Dec.2018
<i>Study on Application Software Using IMA (Integrated Modular Avionics) Architecture for K-FX/I-FX.</i> (The Ministry of Defence of The Republic of Indonesia)	Dec.2017 – Aug.2019
<i>Material Point Method based Fluid Simulation on GPU (Graphical Processing Unit) Using Compute Shader.</i> P3MI (Program Penelitian, Pengabdian Masyarakat, & Inovasi ITB)	Apr.2017
<i>Pengembangan Teknologi Pengelolaan Data Spasial untuk Model Korporasi pada Platform Google Maps.</i> MP3MI (Masterplan Percepatan dan Perluasan Pembangunan Ekonomi)	Apr.2016

Publication

Catherine Pricilla, Dessi Puji Lestari, Dody Dharma, <i>Designing Interaction for Chatbot-Based Conversational Commerce with User-Centered Design</i> , in The 2018 International Conference on Advanced Informatics: Concept Theory and Applications (ICAICTA 2018), Krabi, Thailand	Aug.2018
Dody Dharma, Cliff Jonathan, Achmad Imam Kistijantoro, Afwarman Manaf, <i>Material Point Method based Fluid Simulation on GPU using Compute Shader</i> , in The 2017 International Conference on Advanced Informatics: Concepts, Theory and Applications, Bali. [supported by: NVIDIA GPU Grant Program]	Aug.2017
Iping Supriana, Dody Dharma, Dicky Prima Satya, Dessi Puji Lestari, <i>Geohash Index based Spatial Data Model for Corporate</i> , in International Conference on Electrical Engineering and Informatics (ICEEI 2015)	Aug.2015
Dody Dharma, Tito D Kesumo Siregar, Rinaldi Munir, <i>Interaction Between Fluid and Solid Body Surfaces in Fluid Simulation using Material-Point Method</i> , in 2018 International Conference on Information and Communications Technology	April 2018

Dody Dharma & Afwarman Manaf, *Interactive Fluid Simulation Based on Material Point Method for Mobile Devices*, in The 2015 International Conference On Advanced Informatics: Concepts, Theory And Application (ICAICTA 2015), Thailand. [BEST PAPER] Aug.2015

Honors

Best Paper, The 2015 International Conference On Advanced Informatics: Concepts, Theory And Application (ICAICTA 2015) Aug.2015

Winner, National Innovation Competition on Smart Mobile Ecosystem, \$10,000 | *Blackberry Innovation Challenge 2013, Bandung* May.2013

Winner, INAICTA 2011, Mobile Games Category | *Indonesia ICT Award (INAICTA) 2011, Jakarta* Oct. 2011

Runner Up, KIAD 2011, BlackBerry Application Development, | *KOMPAS- ITB Application Developer Competition (KIAD) 2011, Jakarta* Aug. 2011

Merit, APICTA 2009, Tertiary Student Project, | *Asia Pacific ICT Alliance Award (APICTA) 2009, Melbourne, Australia* Des. 2009

Ganesha Karya Award, by Institut Teknologi Bandung (ITB) | *honored by Rector of ITB, Prof.Dr.Ir.Djoko Santoso, M.Sc, Sabuga, Bandung* Aug. 2009

Winner, Windows Mobile Award, World Wide Imagine Cup, | *Microsoft Worldwide Imagine Cup 2009, Cairo, Egypt* Jul. 2009

Winner, Software Design, Imagine Cup Indonesia, | *Imagine Cup Indonesia 2009, Jakarta, Indonesia* Jun. 2009

Winner (Team Nightclub Coders), Game Design Competition, | *ITB Digital Media Festival 2008, Bandung, Indonesia* 2008

Finalist, North Sumatera Physics Olympiad 2006, | *SMA Methodist 2 Medan* 2006

Teaching Experiences

Lecturer

School of Electrical Engineering and Informatics (SEEI), Institut Teknologi Bandung (ITB) Jan 2014 - Present

IF3230 Parallel and Distributed System | *Parallel Computing Course (Thread, OMP, MPI, CUDA) & Distributed System* Jan 2018 - Present

IF3260 Computer Graphics Jan.2015 – Present

IF5154 Interactive Application Media Development Jan.2014 – Present

IF2230 Operating System Jan.2014 – Present

KU1071 Introduction to ICT (PTI-A), Aug.2014 – Present

Introduction to Information Technology

IF3130 Computer Networks Aug.2015- Present

IF2123 Geometric Algebra Aug.2014 – Dec.2015

Game Industry Business Conference

Game Connection France, The Game Industry Meeting Place

Nov. 2012

Delegation from Indonesia for Game Business Connection

*Supported by : Ministry of Tourism and Creative Economy Republic of Indonesia
Paris Expo Porte de Versailles, Paris, France*

Casual Connect Asia 2015, Singapore

May. 2015

*Brings together the most talented and knowledgeable experts in the casual gaming field to further the casual games industry with the best of networking and learning.
Shangri-la Hotel, Singapore*

Conference Committee

International Conference on Advanced Informatics:
Concept Theory and Applications(ICAICTA 2014)

Jan.2014-Aug.2014

Publicity

The 2015 Conference of the Pacific Association for
Computational Linguistics (PACLING 2015)

Jan.2015-May.2015

Publicity

Konferensi Nasional Informatika (KNIF) 2015

April.2015 – Oct.2015

Chair

Invited Judge

Game Competition Judge in Pagelaran Mahasiswa Nasional bidang TIK (*GEMA STIK*) 6 2013

Game Competition Judge in Pagelaran Mahasiswa Nasional bidang TIK (*GEMA STIK*) 9 2015

Professional Experiences

Assistant Professor

Sept.2018 – Aug.2019

Researcher & Junior Lecturer

Jan. 2014 – Aug.2018

*School of Electrical Engineering and Informatics (STEI),
Institut Teknologi Bandung (ITB)*

Nightspade (PT.Nightspade Multi Kreasi),

Jul.2010 – Dec. 2014

Mobile Game Development Studio, Bandung, Indonesia

Co-founder.

Chief Operating Officer. Lead Several Mobile Game Dev. Projects

Jan.2011 – Dec.2012

Programmer. Implementing Game design into targeted Platform

Jan.2013 – Dec.2013

Chief Technology Officer

Jan.2014 – May.2015

Microsoft Research Centre & Nokia R&D Centre,

Oct. 2009

Bangalore, India. *A Study Visit, Topic: Information Technology Advancement to
Solve Rural Medical Problem (case: Malaria).*

Oray Studios (PT.Genta Cipta Komunika)

Jul.2009 – Jul. 2010

Bandung, Indonesia *Flash-PHP Developer intern.* Developed Angkot The Game, a
social game application on Facebook

PT.Pama Persada Nusantara, IT Department

Jan. 2008 – Feb. 2008

Internship

Organizational Experiences

- ITB Distributed System Laboratory** Jul.2008 – Jul.2010
School of Electrical Engineering and Informatics
Institut Teknologi Bandung | *Laboratory Assistant.*
- Himpunan Mahasiswa Teknik Informatika ITB,
Divisi Keprofesian** Jul.2008 – Jul. 2009
Informatics, Institut Teknologi Bandung | *Crew, Software Developer.*
- Amateur Radio Club, Web Development Division** Jul.2008 - 2009
Institut Teknologi Bandung, | *Crew.*

Invited Talks

- Game Developer Gathering 2013,
Speaker on: Super Fast Game Development on Windows 8** May. 2013
Bina Nusantara University, Jakarta
- Apa Kabar Indonesia, Mobile Games Buatan Anak Bangsa** Nov. 2011
*TV One (Indonesian News TV Channel)
Wisma nusantara, Jakarta*
- ITB Programming Contest, Pengembangan Perangkat Lunak Menggunakan
Teknologi berbasis Open Source** Sep. 2010
Campus Centre. Institut Teknologi Bandung
- User Interface Building** Aug. 2010
SPARTA 2010, Himpunan Mahasiswa Informatika. Insitut Teknologi Bandung
- Indonesia Malaria Research Gathering, Malaria Surveillance System
Empowered by Information Technology** Jun. 2010
Kementrian Kesehatan Republik Indonesia . Bidakara Hotel, Jakarta
- Apa Kabar Indonesia, Tim ITB Menang Imagine Cup 2009** Aug. 2009
TV One (an Indonesian TV Channel), Wisma Nusantara, Jakarta
- Workshop INAICTA 2009, Forum Diskusi dengan Pemenang Imagine Cup
2009** Jul. 2009
Indonesia ICT Award 2009 . Jakarta Convetion Centre
- Tour De Flex, an Introduction to Adobe Flex 3 Technology** Apr. 2009
*Seminar on Arkavidia IT Exhibition,
Himpunan Mahasiswa Informatika .Institut Teknologi Bandung*