FERDIAN ADI PRATAMA

Robotics Developer

@ ferd1@protonmail.com   📞 080-770-15047   🎂 January 9th, 1988   Ⓢ ferdianap
🏠 Kyodo 1-41-17 room 205, Setagaya, Tokyo

INDUSTRY EXPERIENCE

Lead R&D Engineer

MJI Robotics

📅 March 2017 – Present   📍 Tokyo, JAPAN

MJI Robotics develops TAPIA, a communication robot. As the lead R&D engineer, I manage a small research team to provide AI modules for TAPIA with the state-of-the-art technology of vision deep learning, currently focused on object detection and face recognition. I also manage the deployment of the modules and the infrastructure of the production server.

Software Engineering Intern

PLENGoer Robotics (now PLEN Robotics)

📅 Sept 2016 – Dec 2016   📍 Osaka, JAPAN

PLENGoer Robotics is a startup company co-founded by PLEN Project and the GoerTek Group and specializes in the development of practical household and personal service robots. Specialized in robot architecture and software development, I provide technical advises and support with ROS programming and its application to the PLEN CUBE robot series, including the corresponding Android app.

Electrical Engineering Intern

Demag Cranes & Components, GmbH

📅 Feb 2009 – Aug 2009   📍 Wetter, GERMANY

Demag Group is one of the world's leading suppliers of industrial cranes, crane components and services of the Demag brand. I was assigned in Elektrotechnick Handling Technology department during a 6 months internship, and developed infrared circuit modules for overhead crane controller boards

Mechatronics Engineering Intern

Siemens Vocational Training Center

📅 Sept 2007 – Dec 2007   📍 Cilegon, INDONESIA

Handled milling machine, lathe machine, electrical components and circuit, programmed a CNC Lathe machine

EDUCATION

Ph.D. in Information Science

Japan Advanced Institute of Science and Technology

📅 2013 – 2016   📍 Nomi, JAPAN

- Advisor: Nak Young Chong
- Thesis: Enforcing Personalized Human-Robot Interaction through an Integrated Epigenetic Robot Architecture

SUMMARY

Aiming to further advance the current robotics technology by briding the gap between research and practice through machine learning and computer vision.

EXPERTISE

Human-robot interaction   AI

Vision Deep Learning

Torch   Tensorflow   Python

Docker

LANGUAGES

English
Fluent

Japanese
Business Level

Indonesian
Native

ACADEMIC EXPERIENCE

Visiting Scholar

University of Genova

📅 Oct 2014 – Jan 2015   📍 Genova, ITALY

Conducting Experiments for Ph.D. main research using Baxter Research Robot, including the integration of developmental architecture and visual processing module.

Teaching Assistant

Robotics Lecture @JAIST

📅 Dec 2013 – Feb 2014   📍 Nomi, JAPAN

Holding recitation, grading assignments, and responsible for helping with lab experiments.

EDUCATION

M.S. in Information Science
Japan Advanced Institute of Science and Technology
📅 2011 – 2013   📍 Nomi, JAPAN

B.S. in Mechatronics Engineering
Swiss German University
📅 2006 – 2010   📍 Tangerang, INDONESIA

RESEARCH TALKS

ERIS: Epigenetic Robot Intelligent System
IEEE RO-MAN Workshop
📅 2015   📍 Kobe, JAPAN

Toward Epigenetic Architecture Interconnection: Context-influenced Long-Term Memory
The 1st Hanyang-JAIST Joint Workshop on Decision and Planning
📅 2014   📍 Nomi, JAPAN

SELECTED PUBLICATIONS

📄 Journal Articles

- Pratama, Ferdian, Fulvio Mastrogiovanni, Soon Geul Lee, et al. (2016). "Long-term knowledge acquisition using contextual information in a memory-inspired robot architecture". In: *Journal of Experimental & Theoretical Artificial Intelligence*.

👥 Conference Proceedings

- Pratama, Ferdian, Fulvio Mastrogiovanni, and Nak Young Chong (2014). "An integrated epigenetic robot architecture via context-influenced long-term memory". In: *Proceedings of Joint IEEE International Conferences on Development and Learning and Epigenetic Robotics (ICDL-EPIROB 2014)*.
- Pratama, Ferdian, Fulvio Mastrogiovanni, Sungmoon Jeong, et al. (2015). "Long-term knowledge acquisition in a memory-based epigenetic robot architecture for verbal interactions". In: *Proceedings of The 24th International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN 2015)*.

ACADEMIC EXPERIENCE

Lab Assistant
Robotics Lab @JAIST
📅 2012   📍 Nomi, JAPAN

Responsible for managing lab related stuffs. Performing humanoid robot demonstrations and research related matter to visitors.

Webmaster
Center for Intelligent Robotics @JAIST
📅 2011 – 2014   📍 Nomi, JAPAN

Maintaining homepage of Center for Intelligent Robotics.

AWARDS

🎓 **Doctoral Research Fellow Grant**
Doctoral Course, 2013-2016

🏆 **Outstanding Performance Award**
Master Course, 2013

REFEREES

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