

# FERDIAN PRATAMA

## Social Robotacist

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📍 BSD City, Indonesia



## INDUSTRY EXPERIENCE

### Freelance Consultant

#### PLENGoer Robotics

📅 Sept 2016 – Ongoing

📍 Osaka, JAPAN

PLENGoer Robotics is a 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 latest model of the mini humanoid robot PLEN series
- The results will be showcased in CES 2017, Las Vegas

### 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.

- Assigned in Elektrotechnik Handling Technology department during a 6 months internship
- Developed infrared circuit modules for overhead crane controller boards

### Mechatronics Engineering Intern

#### Siemens Vocational Training Center

📅 Sept 2007 – Dec 2007

📍 Cilegon, INDONESIA

Getting used to handle milling machine, lathe machine, handled electrical components and circuit, programmed a CNC Lathe machine

## ACADEMIC EXPERIENCE

### Visiting Scholar

#### University of Genova

📅 Oct 2014 – Jan 2015

📍 Genova, ITALY

Conducting Experiments for Ph.D. main research using Baxter Research Robot.

### Teaching Assistant

#### Robotics Lecture @JAIST

📅 Dec 2013 – Feb 2014

📍 Nomi, JAPAN

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

## SUMMARY

*Aiming to develop the most versatile personal robot companion with self-developing knowledge architecture model based on daily interaction with human and environment.*

## EXPERTISE

Human-robot interaction

Personal robot companion

Developmental robotics

Psychology

ROS

C++

Python

OpenCV

## AWARDS



### Doctoral Research Fellow Grant

Doctoral Course, 2013-2016



### Outstanding Performance Award

Master Course, 2013

## LANGUAGES

English



Japanese



Indonesian



## 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

## 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.

## 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)*.

Complete list of publication is available on the website.

## 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

## REFEREES

### Prof. Nak Young Chong

🏠 JAIST

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### Asst. Prof. Fulvio Mastrogiovanni

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### Assoc. Prof. Geunho Lee

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