

## Curriculum Vitae

Name : Timothius Victorio Yasin (賴德強)  
Country of origin : Indonesia  
City / Province : Surabaya, East Java  
Email : timovictorio@gmail.com  
Status : Second year graduate student  
Address in Taiwan : Assistive Robotics Lab (EE-627), Engineering Building 5  
Institute of Electrical and Control Engineering,  
National Chiao Tung University  
No. 1001, Daxue Rd, East District, Hsinchu City, 300, Taiwan.



### Education:

**M.Sc (cand.)** in Electrical Engineering,  
National Chiao Tung University.

2016-....

**S.T. (B.Sc.)** in Electrical Engineering,  
Petra Christian University, Indonesia.

2012-2016

### Research Interest:

Automatic Control Systems, Computer Vision, Robotics

### Technical Skills:

C/C++ Programming, Matlab, Siemens PLC Programming, Ladder Diagram Programming

### Research Experience:

Project : **Mobile Robot Movement using EEG Sensor Emotiv Epoc**

The main purpose of this project is mobile robot movement using human expressions through EEG sensor, and study of human brain activity while expressing some expression. I used the commercial EEG sensor (Emotiv Epoc) to control mobile robot by capturing expressions which already initialized as a direction command. In order to reach the optimal configuration to control the mobile robot, there are two sets of configuration. These two sets of configuration tested by finding which set is faster to control the mobile robot. Though a certain set of configuration chosen, the testing continues using some threshold value, which function as a validation to the true value of certain expression. These tests come with eight configurations of threshold value and tested based on response time for the mobile robot to reach the goal. The first configuration until seventh configuration are showing response time, which getting faster, then after the eighth configuration tested, the response time was slower than the seventh configuration. In conclusion the seventh configuration was chosen as the optimal configuration to control mobile robot.

## **Awards & Organizations**

<b>Description</b>	<b>Place</b>	<b>Year</b>
Petra Automotive Challenge 2011	Third Place Winner	2011
Junior Assistant	Laboratory of System and Control	2013
Member of Caring Department	Petra Electrical Student Council	2013/2014
Leader of Electrical Student Council	Petra Electrical Student Council	2014/2015
Member of Faculty Legislative Board	Petra Faculty Legislative Board 2	2015/2016
Vice-Leader of Student Legislative Board	Petra Student Legislative Board	2015/2016
Senior Assitant	Laboratory of System and Control	2014-2016
Most Active Student Achievement	Student Activity Points : 325.9	2016
Conference Workshop Speaker	International Conference on Electrical Systems, Technology and Information (ICESTI 2017)	2017 (September)
Outreach Assistant of Assistive Robotics Group	Visiting scholar to give lecture on Mobile Robot Design and Robotics Course in Petra Christian University	2017 (July – September)

## **Working Experiences**

<b>Description</b>	<b>Place</b>	<b>Year</b>
Electrical Internship	KONE INDO ELEVATOR	2015 ( June – July )
Duckietown Summer School Program	National Chiao Tung University	2017 (July)
International Duckietown Summer Program	Petra Christian University	2017 (July – September)
Sound man	Trinity Church (Surabaya, Indonesia)	2014-2015
Sound man	Victory English Fellowship (Hsinchu, Taiwan)	2017-now

## **Projects**

<b>Name</b>	<b>Course</b>	<b>Year</b>	<b>Things Learned</b>
Library Circulation System	Web Programming	3 <sup>rd</sup> Semester (2013/2014)	HTML5, PHP, Database

Current Sensor ACS712	Sensor and Actuator	4 <sup>th</sup> Semester (2013/2014)	Op Amp, ACS712 Sensor, Arduino Programming
Energy Meter Using ACS712 Current Sensor based on Arduino	Sensor and Actuator	4 <sup>th</sup> Semester (2013/2014)	Op Amp, ACS712 Sensor, Arduino Programming, AC measuring
Quadruple Crawling Robot	Robot Engineering	6 <sup>th</sup> Semester (2014/2015)	Servos, Arduino Programming
Stamping Machine using TIA Portal (Siemens PLC)	Automation I	6 <sup>th</sup> Semester (2014/2015)	Siemens PLC Module, Ladder Diagram, TIA Portal
Mobile Robot Movement Using EEG Sensor Emotiv	Thesis	8 <sup>th</sup> Semester (2015/2016)	EEG Sensor ( Emotiv Epoc+ ), Brain Theory, Arduino Programming, Bluetooth Module, Driver Control
Robo-Cleaner	Robotic Vision	2 <sup>nd</sup> Semester of Master Degree (2017)	ROS, OpenCV, Gripper, Python

### **Personal Skills**

#### **1. Language :**

- **Indonesia** : Native in Writing, Listening, Speaking
- **English** : Fluent in Writing, Listening, Speaking
- **Chinese** : Fair in Writing, Listening, Speaking

#### **2. Computer :**

- **PLC Programming** ( Siemens )
- **HMI Interface** ( Wonderware Invensys )
- **Ms. Office** ( Word, Excel, Powerpoint )
- **Programming** :
  - **Assembly**
  - **C programming language**
  - **Matlab**
  - **Arduino**

**Some project references :**

<b>Name</b>	<b>Description</b>
Current Sensor ACS712	<a href="https://www.youtube.com/watch?v=2wpLzZCguBY">https://www.youtube.com/watch?v=2wpLzZCguBY</a>
Energy Meter Using ACS712 Current Sensor based on Arduino	<a href="https://www.youtube.com/watch?v=vaIc5n-ICCg">https://www.youtube.com/watch?v=vaIc5n-ICCg</a>
Quadruple Robot	<a href="https://www.youtube.com/watch?v=pjWizaALZaU">https://www.youtube.com/watch?v=pjWizaALZaU</a>
Stamping Machine using TIA Portal (Siemens PLC)	<a href="https://www.youtube.com/watch?v=2mhTmydvE_I">https://www.youtube.com/watch?v=2mhTmydvE_I</a>
Mobile Robot Movement Using EEG Sensor Emotiv	<a href="https://youtu.be/eZAQMJgyWOo">https://youtu.be/eZAQMJgyWOo</a>