

# Jay Vongphachanh

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## EDUCATION

Temple University, College of Engineering Philadelphia, Pennsylvania Graduation  
**Bachelor of Science in Electrical and Computer Engineering** Expected: December 2019

Montgomery County Community College Blue Bell, Pennsylvania  
**Associates of Science in Engineering Science, Concentration in** Graduation : August 2018  
**Electrical Engineering**

Selected Courses: Embedded System Design, Machine Learning and Pattern Recognition

## RELEVANT EXPERIENCE

Temple University Philadelphia, Pennsylvania  
Undergraduate Researcher April 2019 - Present

- Design an autonomous RC Car based around Computer Vision and Custom PCB board
- Worked with and optimize code for Raspberry Pi 3B+ using ROS and Python
- Maintain and update GitHub Repository for the project

Drexel University Philadelphia, Pennsylvania  
Hackathon Participant : DragonHacks April 20-21st 2019

- Design and prototype a smart Trashcan with Computer vision capabilities
- 24 Hour Challenge to build and design an IoT device that can separate trash items
- Won Best Use of Google Cloud Platform category

Temple University Philadelphia, Pennsylvania  
RoboBoat Design Project May 2018 - June 2019

- Design an autonomous boat that can complete any given obstacle course.
- Use machine learning methods like Deep Learning and neural networks to train the robot.
- Work with Raspberry Pi and other micro-controllers to interface Lidar and Camera sensors.
- Worked with GPU based system Nvidia Jetson TX2
- Experienced with ROS and Linux Operating System

## EXPERIENCE

Apple Inc. Willow Grove, Pennsylvania  
**Technical Expert** April 2018 - Present

- Service iOS devices for software and hardware issues.
- Teach and mentor employees new to technical roles.
- Apple Services Fundamentals and ACiT 2018 iOS Service Certified.

Geek Squad North Wales, Pennsylvania  
**Advance Repair Agent** November 2015 - April 2018

- Service Windows and MacOS devices for software and hardware issues.
- Performed basic data recovery methods

## AFFILIATIONS

IEEE Member, Temple University August 2017 - Present

- Attended school lead events and workshops to hone Engineering and Professional skills.
- Attended talks to gain knowledge of current research topics.

## SKILLS

MATLAB, Microsoft Office Suite, C/C++ , Python, Java, Verilog HDL, Object Orient Programming, Assembly Code, Vivado SDK, Embedded System Design, ROS, Linux, Shell Scripting, MySQL, Windows, MacOS, iOS, Machine Learning, Computer Vision, SLAM, Github, Xilinx, FPGA