

# Jay Vongphachanh

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## EXPERIENCE

Radiant Power Corp

Sarasota, Florida

**Embedded Software Engineer**

March 2022 - Present

- Develop embedded software for 2nd generation Emergency Locator Transmitters for distress tracking
- Write and maintain software lifecycle items per DO-178C
- Utilize version control systems(e.g. TortoiseSVN) and issue tracking tools (e.g. JIRA,Mantis)
- Prepare and present technical design reviews both internal and external

Matthews Marking Systems

Cranberry Township,Pennsylvania

**Software Engineer**

February 2020- March 2022

- Develop and design software plugins for marking, tracking, and autonomous applications in a fast-pace environment.
- Experience creating custom GUIs for proprietary HMI using XML and Lua
- Experience integrating with 3rd party vendors to build custom solutions
- Create quotes, statement of works and operator manuals.
- Familiar with JIRA, SAP, Zendesk, Hyperterminal, Putty, VS Code

Temple University

Philadelphia,Pennsylvania

**Undergraduate Researcher**

April 2019 - February 2020

- 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

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

## TECHNICAL SKILLS

C/C++, Python, Lua, MATLAB, Java, Ubuntu Linux, XML, Bare-metal, ARINC 429, Microcontroller Programming, Raspberry Pi, Nvidia Jetson Nano, SPI, UART, MODBUS TCP/IP, Shell scripting, Interfacing Sensors, bootloader, git

## EDUCATION

Temple University, College of Engineering

Philadelphia, Pennsylvania

**Bachelor of Science in Electrical Engineering**

Graduation: December 2019

Concentration in Computer Engineering