

Thai Nghiem

CURRENT ADDRESS

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PERMANENT ADDRESS

412 2nd St FL 1
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EDUCATION

Bachelor of Science, Electrical and Computer Engineering

Expected 2019

Minor, Computer Science

Rowan University, Glassboro, NJ

GPA 3.97 / 4.0

Tau Beta Pi - Engineering Honor Society

PROFESSIONAL EXPERIENCE

Ellenby Technologies | Woodbury Heights, New Jersey

Summer 2018

Hardware & Firmware Engineering Intern

- Developed electronics and firmware to perform optical scanning of moving objects within a prototype electronic safe chassis.
- Extracted scanning data such that it is available on a PC for analysis.
- Evaluated scanning data using tools such as MATLAB to determine optimal scanning speed, light intensity, receiver gain, and board position

FPT Information System Corp. | Hanoi, Vietnam

Summer 2017

Software Engineering Intern

- Interned in "Risk Management System" Program at FPT Group (No. 1 in the field of system integration, IT services, online advertising and distribution of technology products in Vietnam)
- Built a Student Management website using Servlet & JSP on Eclipse, and using MySQL for databases. Gained knowledge in various Java frameworks, such as Struts 2 and Ext JS.
- Participated on a team that aided in the development and evaluation of a running Tax Revenue project.

RELEVANT EXPERIENCE AND PROJECTS

Augmented Reality App Development | Rowan University | Glassboro, NJ

September 2017–Present

Junior Engineering Clinic Project (link to Conference Paper - <https://tinyurl.com/ydykwm2d>)

- Materialized a recently patented technology, which reconstructs a 3-D object from a 2-D image, into a commercialize product. Learned image processing.
- Developed a user-friendly UI on MATLAB for this new technology (using GUIDE).
- Ported the developed MATLAB code to C++, allowing access on Android devices.

Sumo Robotics Scratch IEEE Competition | Rowan University | Glassboro, NJ

Fall 2016

Third Place (link to Design Report - <https://tinyurl.com/y8fha2b8>)

- Participated in creating a sumo-robot from scratch to participate in the competition.
- Designed and built (using DipTrace) a Printed Circuit Board (PCB) that was used to support the MSP430 micro-controller to control the robot. Constructed and 3-D printed (using SolidWorks) the chassis and the shield of the robot.
- Contributed to implementing the code (in C) that decides the behaviors of the robot.
- Solved many problems, such as overweighing and malfunctioning. Worked efficiently as a passionate team member under pressure.

Object-Oriented Application Design | Rowan University | Glassboro, NJ

Fall 2016

Hands-on Experience (GitHub link <https://github.com/nghiemthai1/Bike-Shop>)

- Designed and coded, from scratch, a Bike Shop application that allows users to rent bike and accessories.
- Implemented polymorphic collections, interfaces, abstract classes, error handling methods and Java GUI.
- Utilized Java Lambda Expression to implement a Products Filter.
- Documented the project using UML Diagram and Sequence Diagram.

TECHNICAL SKILLS

Software - Java, JavaScript, MATLAB, C/C++, MySQL, CSS, HTML, Verilog HDL, LabVIEW

Hardware - FPGAs, Arduino, Raspberry Pi, MSP-430s, breadboards, Multi-meters, Oscilloscopes, Function Generator