Thai Nghiem

CURRENT ADDRESS
515 Mullica Hill Rd.
Apt. A-122, Glassboro, NJ 08028

nghiemt2@students.rowan.edu
469-999-5138
Website: *users.rowan.edu/~nghiemt2*

EDUCATION

Bachelor of Science, Electrical and Computer Engineering Expected December 2019
Minor, Computer Science
Rowan University, Glassboro, NJ
GPA *3.9 / 4.0 (top 5%)*
Tau Beta Pi - Engineering Honor Society

WORK EXPERIENCE

Java Developer | American Water January 2019 - Present
Camden, New Jersey
- Full Stack developed a Web application that automate water quality collectors/managers/supervisors' daily task, which involve collecting and managing thousands of bacteria samples per month.
- Used PostgreSQL for databases, Chrome DevTools for debugging and CSS. Wrote test cases.
- Collaborated between different Agile teams to effectively finish sprints on time.

Hardware & Firmware Engineering Intern | Ellenby Technologies Summer 2018
Woodbury Heights, New Jersey
- Designed and built the Optical-Scanning Circuit Board for Ellenby's latest Rolled-Coin Dispensing Safe. Developed the firmware to support this board in C++.
- Improved rolled-coin recognition precision in color and diameter by 200% compared to the previous iteration, while reducing the production cost.
- Collected and analyzed scanning data using MATLAB to determine optimal scanning speed, light intensity, receiver gain, and board position.

Software Engineering Intern | FPT Information System Corp. Summer 2017
Hanoi, Vietnam
- 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.
- Improved the User Interface of the Tax Revenue project, which made use of various Java frameworks (such as Struts 2 and Ext JS).

PERSONAL & SCHOOL PROJECTS

Augmented Reality App Development | *Engineering Clinic Project* September 2017–Present
Rowan University | Glassboro, NJ (link to Conference Paper - https://tinyurl.com/ydykwm2d)
- Materialized a patented technology (#9,626,568 USA), which reconstructs a 3-D object from a 2-D image, using image processing (filtering, transformation, feature extraction).
- Developed a user-friendly UI on MATLAB and C++ for this new technology.
- Ported the developed MATLAB code to C++, allowing access on Android devices.

IEEE Competition - Third Place: Sumo Robotics Scratch Fall 2016
Glassboro, NJ (link to Design Report - https://tinyurl.com/y8fha2b8)
- 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.

Object-Oriented Application Design 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.
- Documented the project using UML Diagram and Sequence Diagram.

TECHNICAL SKILLS

Software - Java**,** JavaScript, MATLAB**,** C/C++, MySQL, CSS, HTML, Verilog HDL, LabVIEW, Python
Hardware - FPGAs, Micro-controllers, breadboards, Multi-meters, Oscilloscopes, Function Generator