Nam Tran Ngoc

http://namfromnam.com
nhtranngoc@wpi.edu | 508.736.0890
231 Russell Street, Apartment 2 | Worcester, MA 01609

OBJECTIVE

Summer internship in Robotics Engineering, Computer Science or Computer Engineering related fields.

EDUCATION

WORCESTER POLYTECHNIC

Robotics Engineering
Aug 2013 - Present | Worcester, MA
Class of 2017

COURSEWORK

Unified Robotics: Mechanism, Sensors, Manipulation, Navigation
Systems Programming Concept
Software Engineering
Introduction to Artificial Intelligence
Webware: Computational Technology for Network Information Systems
Embedded Computing in Engineering Design
Introduction to Communications and Networks

SKILLS

PROGRAMMING

C • Java • Shell • Arduino • Python • Robotic Operating System (ROS) • LaTeX • HTML5/CSS3 • Javascript • Verilog • Matlab

DESIGN

EAGLE • Solidworks • AutoDesk Inventor

BASIC ELECTRONIC SKILLS

Surface-mount soldering • Basic machine tools

SOFTWARE

MS Office • Adobe Connect • Echo360 • SharePoint • Adobe Photoshop

LINKS

Github: https://github.com/**nhtranngoc**
LinkedIn:
http://linkedin.com/in/**nhtranngoc**

PROJECTS

UNIFIED ROBOTICS | Mechanism, Sensors, Manipulation and Navigation

Aug-Dec 2014, Aug-Dec 2015 | WPI

- Team-based project to navigate and map an enclosed space with a Turtlebot running Robotic Operating System (ROS).
- Designed chassis and electrical system for line-tracking, simultaneous localization and mapping, and object-sensing.

SOFTWARE ENGINEERING

Mar-May 2015 | WPI

- Java-based team project to produce "Sixes Wild", an adaptation of "Candy Crush" variant game.
- Designed and created individual based project "Aces and Kings", a Solitaire variant in Java.

WEBWARE | Computational Technology for Network Information Systems

Oct-Dec 2015 | WPI

- Worked in a team of three to build a Jeopardy-like web application that makes use of MongoDB and web API. (http://literallybugfree.info)

EMBEDDED COMPUTING IN ENGINEERING DESIGN

Aug-Oct 2015 | WPI

- Implemented a Embedded C-based version of Space Invader and Guitar Hero on Texas Instruments' MSP430F5529 Experimenter Board.

INDEPENDENT PROJECTS

May 1014-May 2015 | Worcester, MA

- RGB LED Matrix
  - Utilized AudoDesk Inventor for enclosure design and CadSoft EAGLE for circuit board design.
  - Created a 6x10 RGB LED that reacts to music on a ATMega328 microcontroller and MSGEQ7 spectrum analyzer.
- First Person Head-Mounted Display
  - Designed in Solidworks, then laser-cut and assembled with plywood.
  - Provides positional head-tracking with an accelerometer.
- Personal Website
  - HTML and CSS for simple web design. (http://namfromnam.com)
  - Deployed and hosted using Amazon Web Services.

WORK EXPERIENCE

A/V STUDENT SUPPORT Aug 2013- present | WPI, Academic Technology Center

- Audio/Visual Support • Large Format Printing
- Troubleshoot A/V Technology • Mentor New Hires

STUDENT TUTOR January 2016- present | WPI, ECE Department

- Assist in lab projects • Evaluate homework and lab assignments for 100+ people
- Hold office hour to ensure students understood course concepts