Schwin Pinkoh

spinkoh@purdue.edu

318 W. Lutz Apt.2 West Lafayette IN. 47906 (469 338 7942)

Education

Bachelor of Science in Computer Engineering   GPA: 3.53 / 4.00

Purdue University, West Lafayette, IN   December 2017

Work Experience

Lutron Electronics, Coopersburg, PA   Summer 2017

Embedded Software Engineer Intern
- Developing a prototype for Lutron's commercial motorized shade equipped with RF communication capability (ARM Cortex-M microcontroller based project).
- Adding PC-Lint configuration to the project to detect potential errors in the future.
- Multiple bugs fixed in shared code in multiple projects.

Lab instructor/Teaching assistance, Purdue University   Spring 2016

C programming for engineers
- Lecturing students on various topics in C programming language from basic to intermediate level.
- Introduce debugging and refactoring techniques to students who were interested.

Anywhere 2 go Co., LTD., Bangkok, Thailand   Summer 2015

Windows developer (C#)
- Rewrote employer's application for Windows Universal store in C#, expanding the availability of application to the third platform.

Design Projects

Shock absorber vest, Senior Design, Purdue University (Ongoing)   Summer 2017 - Fall 2017

Software Developer (STM32L4 microcontroller)
- Develop microcontroller-integrated vest with machine learning capability to detect when the wearer will fall and help absorbing the impact by inflating built-in airbag at the optimum rate.

Autonomous Aerial Vehicle, Vertically Integrated Project, Purdue University   Fall 2016

Team Leader/ Software Developer
- Develop drone's auto-tracking system using Python digital image processing library, OpenCV, that allows drones to follow an object or person during their flights.

Android Gesture Control, Individual   Summer 2016

- Integrating Myo Armband to fully control android phone with hand gestures.

Mini Prix, Group Project – Microprocessor   Spring 2016

Target platform: ATmega, HC9S12C32 Microcontroller
- Physical racing game with a tracking system and store recording that allows players to race with each other and the stored records projected onto the track via LED strip.

Leadership Experience

Purdue Windows development club, West Lafayette, IN   Fall 2015 – Fall 2016

Secretary, lecturer
- Provided a lesson on the basic of how to build Windows Universal Application and two lessons on how to use online services by connecting to Web API during fall 2015 and Spring 2016.
- Preparing several lessons on Augmented reality application development with Club's officers for Fall 2016.

Relevant Coursework: Microprocessor System Design and Interfacing, ASIC Design Lab, Computer and Network Security
Technical Skills: C, C#, Python, HDL (Verilog), Assembly, Java (Android), Embedded Software Development
Website: https://khlose.github.io/