Atlanta, GA

Summary:

I am a graduating Electrical and Computer Engineering Master student at Georgia Institute of Technology specializing in VLSI design, and I finished my BS degree in Electrical and Computer Engineering Technology at Purdue University specializing in embedded systems. Right now, I am looking for opportunities for embedded systems, circuit design and firmware/software development, preferably in IoT, 3D Manufacturing, and Automotive Industry.

Education:

Georgia Institute of Technology

School of Electrical and Computer Engineering

Master of Science in Electrical & Computer Engineering

Expected May 2021

GPA: 3.88 (now)

Purdue UniversityWest Lafayette, INPurdue Polytechnic InstituteMay 2019Bachelor of Science in Electrical & Computer Engineering TechnologyGPA: 3.75

Experience:

Purdue Polytechnic Institute

Teaching Assistant and Grader of Embedded System

- Supervised active learning lecture sections
- Provided one-to-one tutoring during lab sections
- Assisted to design homework questions for better active learning
- Communicated with students for feedback to improve course efficiency
- Graded for homework, quizzes, exams, and lab reports

Purdue Collaborative Robotics Lab

West Lafayette, IN

West Lafayette, IN

Aug. 2017 – May 2019

Undergraduate Research Assistant

Oct. 2016 - May 2017

- Learned about graduate-level research while assisting PhD students under Prof. Richard M. Voyles, the head of Collaborative Robotics Lab.
- Participated in robotic projects including bionic robot softskin and modular serpentine robot.

Projects:

Hybrid Electric Go-Kart (Group Academic)

A hybrid electric vehicle constructed from a scraped go-kart chassis, through performing research and utilizing existing electric vehicle systems, and designing and fabricating custom electric vehicle components.

CAN Bus, BMS (Battery Management System), Vehicle Electrical System, Harness, Embedded System

Prism Wearable Headset (Group Academic)

A personal wearable recording and data logging device designed and fabricated for early childhood autism research at Purdue University.

C#, SSH/SFTP Protocol, 3D Printing, CAD, Digital Circuit Design, Linux (RPi)

^{*} Legally authorized to work in US, Permanent Residency pending, without requiring sponsorship

Tool Organization Solution (Personal)

A 3D printing solution designed, validated, and improved for organizing different kinds of tools in workbench.

3D Printing, CAD

Mic Amplifier (Personal Academic)

A 3-stage microphone amplifier designed, fabricated, and verified, capable of handling both balanced and unbalanced input MIC signal, noise filtering, and 5-band equalizing, with 25.92 Watt of maximum output power.

Analog Circuit Design, Digital Circuit Design

Electric Guitar (Group Academic)

A self-designed spaceship looking wooden electric guitar fabricated with both hand skills and CNC machining.

Acoustic Instrument Design, CAD, CNC (Computer Numerical Control)

EDB-UNIQUE (Group Research)

An Edge Detection Based Unsupervised Image Quality Estimation method, improved from the original UNIQUE algorithm, to better meet the need of fast expanding social network by focusing on distortion and blur types common in personal shot photos.

Image Processing, MATLAB, Python

Honor:

Bachelor of Science, Graduate with Distinction

Issued by Purdue University on May 2019

Dean's List & Semester Honors

Issued by Purdue Polytechnic Institute for 7 semesters from Dec. 2015 to May 2019

Skills:

Language: Chinese (Native), English (Professional Proficiency), Japanese (Limited Working Proficiency)

Programming: C/C++/C#, .NET, JAVA, Python, LabVIEW, MATLAB, VHDL

Tool: Linux, Git

Controller: Arduino, FPGA, PLC

Electrical: CAN Bus, BMS, Wireless Networks (WIFI, cellular, Ad hoc, BLE), Embedded System (SPI,

I2C, UART), DSP, Digital Image Processing, Electric Machine Drives

Electronics: IC Design (Analog and Digital), VLSI Physical Design, High Level Synthesis,

Optoelectronics

Engineering: CAD (Inventor, Fusion, CATIA), 3D Printing (FDM), CNC