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EDUCATION

The Ohio State University (*Aug. 2018 – May 2022, Columbus, OH, USA*)

B.S. Electrical and Computer Engineering, Magna Cum Laude

Major GPA (4.00 scale): 3.92

Cumulative GPA (4.00 scale): 3.83

RELATED EXPERIENCE

Qualcomm Inc.

Software Development Internship (*June 2021 – Aug 2021, San Diego, CA, USA*)

- Using External Debug Interface and DAP interface to build Python based API that is capable of:
 - Dump Memory
 - Walk through page-table for virtual address to physical address translation
 - Read core registers and general-purpose registers
 - Run assembly instructions

Electro Science Laboratory, the Ohio State University

Research Assistant supervised by Prof. Asimina Kiourti (*Feb. 2021- Apr. 2022, Columbus, OH, USA*)

- Topic: Denoising E-Textile Sensors for Real-World Kinematics Monitoring after mTBI
- Testing antenna transmitting intensity using Network Analyzer
- Sensor noise analysis and mathematical modeling
- Implementing machine learning to solve the sensor drifting problem caused by fabric stretches along with joint flexion
- Weekly progress report and meeting
- Attended URSI-NRSM 2022 and AP-AT-RASC 2022 conferences as presenter and first author

Ohio State Robomaster Robot Team - OSU IEEE Undergrad Chapter

The lead of Electrical & Embedded Development Division (*Oct. 2018- Dec. 2019, Columbus, OH*)

- C Language embedded system developer in robot PID control, motion calculation, CAN bus communication, Serial communication, and sensor raw data filtering.
- Third Prize - 2019 DJI Robomaster Robotics Competition

DJI Innovations Science and Technology Co. LTD.

Summer Camp Internship (*Jul. 2018 – Aug. 2018, Shenzhen, Guangdong, China*)

- C language embedded development based on STM32, RTOS, multi-threading
- Structurally designed and built a specific-function robot
- Implementing expert PID Control, CAN bus, multi-tasking, and filters for sensor raw data processing

Front Position Tracking Robot (*Sep. 2016 – Jun. 2017, Beijing, China*)

- **Patent approved (CN2017212642431)**
- Collaborated with teammate to design a tracking placing at front of the tracking object with all-dimensional tracking function using two physical ropes.
- Solidworks for 3D modeling, Self-designed PCB base board, CNC & 3D printing applied
- C++ programming based on ATmega2560 micro-controller, self-designed mathematical model applied to for relative position calculation, PID control applied

QUALIFICATION

- Programming language: C, Java, Python, arm Assembly, MATLAB
- ARM based embedded development experience
- Linux working experience and OS knowledge (Memory, Multi-threading, I/O)
- VHDL circuit design, Xilinx ISE
- VLSI circuit & layout design and analysis using Cadence Virtuoso
- Computer architecture and advanced hardware architecture design technique
- Machine learning knowledge and experience
- PCB design skill