Marissa Kwon

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Senior - Expected Grad 2020

EDUCATION

Oregon State University
College of Engineering
Electrical/Computer Engineering Major with CS minor
GPA: 3.49

HACKATHONS

Hweekend Winter 2019 • Oregon State University

RELATED COURSEWORK

Current
ECE 499: Statistical Signal Processing
ECE 433: Power Systems
ECE 473: Microcontrollers & Embedded Systems

Completed
Software Engineering II (SW Testing)
Transmission Lines
Operating Systems I
Signals & Systems I/II
Electronics I/II
Computer Organization and Assembly

LINKS

MECOP Internship Summary:
https://tinyurl.com/y3m74plj

REFERENCES

Can be give upon request

SOFTWARE SKILL SET

CAD and Hardware Design
Eagle, Vector CANoe/CANape, Fusion 360 AutoCAD, Arduino IDE
Scripting/Programming Languages
C/C++, Embedded C for AVR uC, Vector CAPL (Automotive R&D scripting lang.), Python, LaTeX, BASH,

TECHNICAL AREAS OF INTEREST

Alternative Clean Energy Systems

- Some R&D experience with heavy-duty zero-emission vehicles (Daimler Electric Bus & Semi)
- Interest in autonomous control systems & ML
- Interest in electric motor & generator integration
- Interest in novel electrical power systems infrastructure (Vehicle2Grid, HV Battery Development and MGMT, etc.)

INDUSTRY EXPERIENCE & RESEARCH

Daimler Trucks North America Internship Spring '19 - Fall '19

- Contributing member of the Electric Mobility Group releasing the company's first fleet of Electric Semi Trucks.
- Agile structured development using Kanban & sprints.
- Regularly coordinated software development meetings with international partners & suppliers
- Familiarity with data transfer via CAN and ECU architecture
- 6 months experience in Automotive R&D

Openly Published Environmental Sensing Lab Winter '17 – present

- Embedded Systems Programming & Integration.
- Prototyped agriculture climate sensor systems.
- Designed Printed Circuit Boards (EAGLE) & 3D models (Autodesk Fusion 360).

Power Systems Research at OSU Fall '18 - Spring '19

- Simulate AC/DC overload conditions in Power Systems
- Compare expectations of different grid failure models (Manchester, DC/AC OPA etc.)
- Run Monte Carlo Simulations with Fortran F90

09.27.2019