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Amanda Loh

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Education

UNIVERSITY OF WASHINGTON, Seattle WA
Bachelor of Science in Electrical Engineering and Bachelor of Science in Computer Science

Expected Graduation Date: June 2017
GPA: 3.78
Focus: Controls and AI/Machine Learning

Honors: Annual Dean's List 2012-2013 and 2013-2014, Dean's List Winter 2015 and Spring 2015
SOC Seattle Facebook Hackathon Winner Spring 2015

Scholarships: Emerging Leaders Scholarship for 2015-16, Engineering Learning Community Scholarship for 2015-16, Endowed EE Scholarship for 2015-2016

Engineering/Creative Experience

- **Currently working on route prediction for EcoCar** which involves converting prototype simulation MATLAB code for a hidden markov model into C++ code for implementation
- **Worked on an AI chess bot** this past autumn that explores a game board in parallel tasks and takes into account move ordering, iterative deepening, and transposition tables.
- **Led a remote control robotic** tank project in Spring 2015 that had autonomous capabilities by contributing most of the design elements in a team of two other EE students at the University of Washington using C, FreeRTOS, and ARM LM328962 microprocessor on a Stellaris board with Sharp sensors
- **Certified in CAD CATIA** basic training at Tesla Motors (4-day training course)
- **Led a research project** at the UW BioRobotics Laboratory in 2013- 2014 that makes use of PneuFlex actuators to create a grasping mechanism

Work Experience

TESLA MOTORS Palo Alto, CA
Body Controls Firmware Intern June 2015-September 2015

- Ran, modified, and created tests for validating firmware for the Model X. Areas of focus included: seats, door latches, frunk, and windows.
- Created a script in Python to analyze and modify tolerances to ensure that test cases accurately passed.
- Generated test automation tools in Python to make the testing and validation process faster and more efficient for the team.

TESLA MOTORS Palo Alto, CA
Battery Technology Intern September 2014-December 2014

- Produced the electrical and mechanical design for several battery-related test fixtures
- Drove a sketch of a prototype through design software, test, and manufacturing to create a completed product in three months
- Soldered through hole and surface mount parts for analog self-designed circuits
- Researched chemical battery structure in order to explore better battery options for electric vehicles

ARC DANCE COMPANY, Seattle, WA
Freelance Company Dancer June 2011-December 2013

- Self-taught choreography through videos and able to replicate choreography shortly afterwards
- Learned to become versatile through learning different styles of dance in a short period of time

Leadership

UNIVERSITY OF WASHINGTON Seattle, WA
Corporate Relations Leader for Society of Women Engineers (SWE) June 2015-Present

- Organize company tours, industry panels, and other networking events for SWE members

Career Fair Event Planner for Society of Women Engineers (SWE) June 2014-June 2015

- Organized one of the biggest career fairs at University of Washington called Evening with Industry