AMANDA ZHU

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EDUCATION

Computer Science M.S. — August 2016 — May 2018

Northeastern University - Boston, MA

GPA: 3.77 | Concentrations: Computer Vision, Machine Learning, Algorithms, and Robotics
2017 College of Engineering M.S. Leadership Award
Graduate School of Engineering International Student Ambassador

Electrical Engineering and Mathematics B.S. — August 2012 — May 2016

University of New Haven - West Haven, CT

GPA: 3.80 | Concentrations: Telecommunications and Power Systems
Magna Cum Laude, Dean's List Student, IEEE *Eta Kappa Nu* Honor Society
Center for Learning Resources Engineering Peer Tutor, International Student Office Peer Mentor

WORK EXPERIENCE

Toyota Research Institute - Cambridge, MA — June 2018 — August 2018

Software Engineering Intern

Provided cloud-based application (AWS) design and integration support on existing internal tools.
Agent modelling in reinforcement learning on human driving behaviours.

Intuitive Surgical - Sunnyvale, CA — May 2017 — August 2017

Software Engineering Intern

Tested software protocols and performed basic technical operations on da Vinci robotic surgical systems.
Designed and implemented an automated test framework in PyQt to run regression tests, compatibility checks, and test protocols for the software daily build and release.

Timex Group USA, Inc. - Middlebury, CT — July 2016 — September 2016

R&D Software Engineering Intern

Provided documentation support for test platforms specification.
Developed an application interface on Raspberry Pi's (Debian) in Python and C for automated functionality testing.
Tested watch battery fuel gauge and analyzed results using an I^2C connection and J-LINK SEGGER debugger.

Wuxi NCE Power CO, LTD - Wuxi, Jiangsu, China — July 2013 — August 2013

Test Engineering Intern

Performed parametric quality production testing and created laser markings on MOSFET products.
Provided english technical support for document translation.

PROJECTS

Hyperloop Paradigm | SpaceX Hyperloop Pod College Competition II 2017

Member of Northeastern Hyperloop Club, Software Team
Designed software system and tested the prototype pod for the SpaceX Hyperloop competition.

Electricity Load Prediction of New York State with Machine Learning | Capstone Design Project

93% accuracy prediction of electricity consumption in New York based on past decade's annual hourly electricity and climate data implementing Backpropagation Neural Network.
Improving the initial prototype with TensorFlow.
Accepted at IET Renewable Power Generation Conference 2018.

Simulation Model on Chaotic Asynchronous Transmitter and Receiver | Undergraduate Research Project

A chaotic communication system model for secure information transmission constructed using Rössler's attractor.
Presented at the 2016 IEEE MIT Undergraduate Research Technology Conference.

SKILLS

Languages: Python 2 & 3, C++, C, MATLAB, HTML5, CSS, Node, JavaScript

Frameworks & Tools: AWS S3, JIRA, Jenkins, Git, MySQL, Qt, LabView, Blender, LTspice, Multisim, Unity

Platforms: Linux (Ubuntu), ROS, LCM, Windows, Mac OS, Arduino, Debian (Raspberry Pi)