

Zhaodong Zheng

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INTRODUCTION

Senior at Carnegie Mellon University (CMU). Proficient in many programming languages and paradigms. **Primary interests: robotics, machine learning, computer vision, and self-driving vehicles**

WORK EXPERIENCE

Software Engineering Intern, Microsoft

June '16 – August '16

- + Azure Data Factory team. Created operationalized system to forecast computation cluster capacity. Improved integration with Azure Machine Learning. **C#**

Undergraduate Researcher, CMU Personal Robotics Lab

January '14 – May '15

- + Lead animator and project scientist to create robotic actor with lab's robot (HERB). Used both acting experience and programming skills to enable HERB to perform a play at CMU's Purnell Center. **Python, C++**

Concordia International School Shanghai

May '14 – Present

- + Instructor for summer classes: Artificial Intelligence and Game Theory, Intro to Programming

Electronics Intern, Microcontroller Lab at Tsinghua University

July '12

- + Created a fire alarm system that sends text message notifications when a fire is detected. **C#**

EDUCATION

Carnegie Mellon University

August '13 – May '17

College of Engineering, 3.6 GPA

- + B.S. Electrical and Computer Engineering (ECE), Robotics
- + M.S. ECE
- + Relevant coursework: Artificial Intelligence, Machine Learning, Computer Vision, Robot Kinematics and Dynamics, Control Theory, Embedded Systems, Parallel Computer Processing and Architecture, Robotics Systems Engineering

SKILLS

Languages: Python, C, C++, C#, SQL, Golang, Java, Matlab, OpenGL, Cuda, SystemVerilog
Tools: Unix, Doxygen, Git, Subversion, OpenCV, OpenGL, Arduino, LaTeX

NOTABLE PROJECTS

Achieve: Achievement system for Microsoft employees. Inspired by the Xbox achievement system. For the 2016 //oneweek hackathon.
RoboGoalie: Robotic air hockey goalie, uses computer vision to detect puck. Github – bit.ly/1QPAunO
Cache Simulator: Coherent cache simulator using MSI, MESI, and MOESI. Github – bit.ly/1Z5FdrB
Interactive Sandbox: Dynamic Zen garden with projected colors and patterns. Github – bit.ly/1TN97iH
Real-Time Kernel: Kernel with task scheduling on bare-metal Raspberry Pi

PUBLICATIONS

Zhaodong Zheng, Aaron Walsman, Laura Herlant, Garth Zeglin, and Siddhartha Srinivasa, "HERB the Robot Butler in David Ives' Sure Thing," HRI Workshop on Enabling Rich, Expressive Robot Animation, March 2015.
Garth Zeglin, Aaron Walsman, Laura Herlant, Zhaodong Zheng, Yuyang Guo, Michael Koval, Kevin Lenzo, Hui Jun Tay, Prasanna Velagapudi, Katie Correll, and Siddhartha Srinivasa, "HERB's Sure Thing: a rapid drama system for rehearsing and performing live robot theater," IEEE Workshop on Advanced Robotics and its Social Impacts, September, 2014.

OTHER INVOLVEMENTS AND ACHIEVEMENTS

CMU ChemE Car: 2014-Present. Team lead for Electronics Team. Top 3 in regional competition for 2 years.
CMU Treblemakers: 2014-Present. Technical Director/Webmaster of competitive co-ed a cappella group.
Eta Kappa Nu (ECE Honor Society) Sigma Chapter.
CMU Dean's List.