COLE GULINO

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OBJECTIVE

Obtain full time position in the robotics industry where my expertise in machine learning, planning and AI, and systems engineering would be needed

EDUCATION

Carnegie Mellon University School of Computer Science, Pittsburgh, PA December 2016
M.S. Robotic Systems Development, GPA: 3.99/4.0

Fall 2015 - Fall 2016 Coursework:

- Machine Learning
- Systems Engineering
- Manipulation, Mobility, and Control
- Deep Learning
- Robot Autonomy
- Computer Vision
- Dynamic Optimization
- Planning, Execution, and Learning

Louisiana State University, Baton Rouge, LA May 2015
B.S. Electrical Engineering
Graduated Magna Cum Laude, GPA 3.84/4.0

Selected Coursework:

- Neural Computing
- Data Structures and Algorithms

PROJECTS

Autonomous Search and Docking with UAV (Fall 2015 - Spring 2016) - MRSD Project

- Working on controls of UAV, position tracking, and planning
- Computer Vision system for obstacle detection and avoidance

Maze Solving Robot (Fall 2014 - Spring 2015) - Senior Design project for IEEE Region 5 Robotics Competition.

- Developed planning, computer vision, and character recognition algorithms in Python. Placed third out of 40 teams during competition.
- Placed first among all senior design teams during performance reviews by demonstrating technical, documentation, and presentation skills.
- Supervised team meetings and project direction as team leader.
- Executed hardware and software system integration using Raspberry Pi 2 and Arduino.

WORK EXPERIENCE

Uber Advanced Technology Center, Pittsburgh, PA May 23, 2016 - August 13, 2016
Software Development Intern

RobotWits LLC., Pittsburgh,PA January 11, 2016 - May 15, 2016
Robotics Engineering Intern

- Developed algorithms and data structure pertaining to planning for UGVs.

CPS Instruments, Prairieville, LA Summer 2014
Engineering Intern

- Redesigned, built, and tested motor RPM and misalignment sensor circuit to create a flatter square wave with less noise
- Troubleshot electrical and software errors with end users across the globe.
- Wrote technical documentation to improve manufacturing efficiency
- Tested large mechatronics system for quality assurance

SKILLS

Computer Languages: C++, Python, MATLAB, Java, JavaScript, HTML, MIPS Assembly
Engineering Software: ROS, Git, PSPICE, Eagle PCB, Diptrace, L-Edit

EXTRACURRICULAR WORK

Whole Kids Outreach
Volunteer Camp Counselor Summer 2007, 2008, 2009

- Facilitated crafts, horseback riding, and swimming lessons for underprivileged and disabled youth.