

Mehrdad Darraji

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EDUCATION

The University of Texas at Austin

Expected Graduation: May 2020

Bachelor of Science in Computer Science

GPA: 3.22

Relevant Coursework: Intro to Programming, Data Structures, Discrete Math for CS, Autonomous Intelligent Robotics I and II, Computer Organization and Architecture

Honors Include: Texas Interdisciplinary Plan Scholar, University Leadership Network, 2016 Ronald McDonald Scholarship recipient, R. C. Caffarelli Educational Fund recipient

PROJECTS

My Personal Website, mehrdaddarraji.pythonanywhere.com, Austin, TX

December 2017- Present

Personal Project

- Through the **Flask** python web framework and **Bootstrap** front-end framework, I experimented with making a creative website. Information about myself and past projects are available. I'm looking into using unique APIs in my website for experimentation and to learn what it takes to be a full-stack developer.

Research: Using AR-Code to Self-Localize Building-Wide Intelligence Segbots, Austin, TX

September 2017- Present

Group Project, Role: Reading Past Researches, ROS/C++/Python Coding, Testing algorithm, and Running Experiment

- Through **computer vision**, Augmented Reality Codes will allow the robots to learn their location using a previous map of the floor. The robot will go around the lab till it detects and reads a code on the wall, then it will receive data on where it is roughly located.

HackTX 2017: Disaster Heat Map by JAAMM, Austin, TX

October 2017

Group Project, Role: Front-End Web Development

- When there is a disaster, 911 hotline gets flooded with message from people in need of help; in order to tackle this problem, we tried to use people's social media, Twitter mainly, to show that they are in need of help. My team mates gave us the data and I tried to work with **JavaScript**, **HTML**, and **CSS** to make a Heat Map using Google Maps.

Research: Using Hand Gestures to Command Building-Wide Intelligence Segbots, Austin, TX

April 2017 – May 2017

Group Project, Role: Reading Past Researches, Robot Operating System/C++ Coding, Testing Algorithms

- Using **computer vision**, robots will understand a hand gesture command and will act on the given command. For example, if a robot receives a "follow me" command given by someone holding up three fingers, it will follow the person until it receives a "stop" command given by five fingers.

EXPERIENCE & LEADERSHIP

Texas Interdisciplinary Plan, The University of Texas at Austin

January 2017 – Present

Mentor

- Helping freshman students transition from high school to college
- Providing guidance and resources to students in order to help achieve their goals
- Meeting a group of six every week individually and in a group to discuss their needs

Freshmen Research Initiative, The University of Texas at Austin

January 2017 – Present

Autonomous Intelligent Robotics

- Analyzed research papers associated with Artificial Intelligence
- Improved programming in Robot Operating System and C++
- Achieved knowledge about computer vision, robot bodies, and machine learning

ACTIVITIES

Hispanic Association of Computer Scientists, Austin, TX

January 2017 – Present

Member

Div Day Conference, Austin, TX

January 2017 – Present

Director of Logistics

IEEE Robotics and Automation Society, Austin, TX

August 2016 - Present

Member

SKILLS

Programming Languages: Java, Python, C/C++