

# Amirali Omidfar

Software Engineer

## Contact

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## Skills

### C/C++



### Python



### JAVA



### JavaScript



### HTML/CSS



### SWIFT



### Embedded Systems



### Peripheral Communications:

BLE, SPI, I2C, UART



Arduino, Raspberry Pi,

STM32, ESP32, ESP8266, AVR,

Dev Core boards



I'm a 2nd year Electrical and Computer Engineering Masters' student at UCLA. As a graduate research assistant at UCLA HCI, I work on system design of projects that integrate deep learning and AI into user friendly human-computer interfaces. Other topics of my interest are Embedded Systems, AI on chip and Reinforcement learning in Robotics and path planning.

## Work History

2020-06 -

2020-12

### Machine Learning and Embedded Systems Intern

TE Connectivity, Fremont, CA

- Received **TE Spot Award** for **Self-driven project leadership** and **adaptability skills**. Helped the team with reaching end of year's deadlines and milestones.
- Prototype a Haptic feedback controller (worked on both the firmware and the circuit design) for the medical unit project.
- Natural Language Processing for designing an AI-based search engine for TE's connectors
- Write firmware for STM32 MCU's using STMCube ID and mbed OS compiler

2019-05 -

2021-01

### Graduate Student Research Assistant

UCLA HCI, Los Angeles, CA

- Research on interactive and ubiquitous technologies for IoT devices.
- Designing a universal wrist-worn controller utilizing deep learning on IMU and image data
- Visual Assistive technologies and indoor navigation systems for visually impaired people.
- Publication pending at Augment Humans 2021

2015-01 -

2015-08

### Control Engineering Co Op

Whirlpool, Amana, IA

- LED light bulb cost optimization project ( **1.5 million\$ Annual Saving** ) Statistical Analysis of luminosity and color temperature (CCT) of LED light bulbs
- Whirlpool **Co Op Award** for LED project, embracing **teamwork** and excellent **communication skills**.

PCB Design

Neural Networks and Deep Learning

Reinforcement Learning

Natural Language Processing

- Test engineer ice maker UI interface
- Design an inspection device for measuring luminosity and CCT of the lighting inside refrigerators.

## Education

2019-08 - 2021-02	<b>Master of Science: Electrical and Computer Engineering</b> <i>University Of California - Los Angeles - Los Angeles, CA</i>
2016-08 - 2019-03	<b>Bachelor of Science: Electrical Engineering</b> <i>University Of California - Los Angeles - Los Angeles, CA</i>