# umersalman

### contact

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### programming

CSS3 & HTML5
PHP (♥ Laravel)
MySQL
JavaScript, CoffeeScript
jQuery
Java, C, C++
ETEX (this résumé)
Python
TIBASIC
Assembly
MATLAB
LabVIEW
Git, SVN, Mercurial

# operating systems

Linux Android OS X iOS Windows

### software skills

SolidWorks
Burp Suite
Eclipse
OpenCV
Android Studio
ADB/Fastboot

## education

2016-Now **Electrical and Computer Engineering - May 2020** 

The University of Texas at Austin

Technical Cores: Software Engineering & Design and Academic Enrichment

Minor: Business

## extracurriculars

2017-Now Texas Aerial Robotics (TAR)

The University of Texas at Austin

Founder and President

- Lead a 30 person org. to compete in the International Aerial Robotics Competition
- Build and program cutting-edge, fully autonomous quadcopters
- Use computer vision and sensors, such as LiDAR and optical flow, to target and interact with moving ground robots in a GPS denied environment
- Research drone swarming and drone control through human voice and gestures

### 2013–2016 FIRST Robotics Competition

Brandeis High School, TMI - The Episcopal School of Texas

Team Captain, FRC3481 and FTC6221

- Build 120 lbs robots to compete against 3,000+ teams
- Won Motorola Quality Award (x3), GM Industrial Design Award, and Delphi Excellence in Engineering Award

# experience

2018 **Visa Inc.** Austin, Texas

Security Engineering Intern

- Created automated penetration testing suite using Burp Suite and Python to increase security while decreasing time in security testing stage
  - Tests Visa products & APIs for security vulnerabilities such as XSS and Clickjacking
  - Learns from cybersecurity team to eliminate false positives

### 2017 General Dynamics Mission Systems

San Antonio, Texas

Cybersecurity Intern

- Developed PitBull, a Multilevel Security (MLS) Linux OS based on RHEL, and Trusted Network Environment (TNE) testing tools using OpenCV and Python
  - PitBull/TNE are used by U.S. Federal Agencies
- Created PitBull Health Console for diagnosing system/network problems

### 2015 Parlevel Systems

San Antonio, Texas

Software Development Intern

- Worked on the development of analytical software for vending machine operators
- Developed the company's foray into micromarkets, which became a core product

# projects

### 2012-Now Ingress (Niantic, Inc.)

Regional Moderator

- Created and manage the South Texas roster website and database
- Improved the usability of Google's web app by JavaScript bookmarklets for thousands of users

#### 2017 Smash Bros LaunchPad

Austin, Texas

Developed in C and Assembly, adaptation of Smash Bros on a TI microcontroller Wrote LCD drivers, joystick and button inputs, and audio and vibration outputs

### 2015–2016 Car Diagnostics Logger

San Antonio, Texas

Raspberry Pi in my glove compartment to log my car's stats (intake temp, MPG) every 1/4 sec.