

# umersalman

## contact

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## programming

CSS3 & HTML5  
PHP (♥ Laravel)  
MySQL  
JavaScript, CoffeeScript  
jQuery  
Java, C++  
L<sup>A</sup>T<sub>E</sub>X (this résumé)  
Python  
TIBASIC  
Assembly  
MATLAB  
LabVIEW  
Git, SVN, Mercurial

## operating systems

Linux  
Android  
OS X  
iOS  
Windows

## software skills

Basic SolidWorks  
CyberLink PowerDirector  
Eclipse  
TableAU  
Android Studio  
Paint.NET

## education

- 2016–Now **Electrical and Computer Engineering Class of 2020** University of Texas at Austin
- 2013–2016 **High School at Texas Military Institute (TMI)** TMI - The Episcopal School of Texas
- 2013 **Certification of Graduate-Level Course** Royal Holloway University of London
- Graduated an online course titled "Malicious Software and its Underground Economy: Two Sides to Every Story." Learned about traditional and mobile security threats and the ecosystem that drives that illegal, yet profitable, business

## extracurriculars

- 2017–Now **Texas Aerial Robotics (TAR)** University of Texas at Austin
- Founded a club to compete in the International Aerial Robotics Competition with our fully autonomous quadcopter. Uses computer vision and multiple sensors to target and interact with moving ground robots. Placed 4<sup>th</sup> in our first run
- 2016–Now **IEEE-Communications Society (IEEE ComSoc)** University of Texas at Austin
- Spread awareness about and prevention of software and hardware vulnerabilities
- 2015–2016 **TMI Maker Club** TMI - The Episcopal School of Texas
- Founded and manage a club where students can come together to make things or learn to make things, whether they be portable phone chargers, wood frames, or soldiering skills
- 2015–2016 **CyberPatriot** TMI - The Episcopal School of Texas
- Ranked Platinum, the highest tier, in a National cybersecurity competition funded by Northrop Grumman Corp.
- 2014–2016 **FIRST Robotics Competition** Brandeis High School
- Build 120 lbs robots to compete against more than 3,000 teams from 19 countries. Team Captain of 3481 BroncBotz, 1 of 91 BETA teams chosen for robust design, programming skills, and performance on the field. Won awards including Motorola Quality Award (x3), GM Industrial Design Award, and Delphi Excellence in Engineering Award
- 2013–2016 **FIRST Tech Challenge** TMI - The Episcopal School of Texas
- Build robots to compete against over 5,000 other teams from various countries. Team Captain of 6221 Panther Bots Alpha, ranked in the top 3% of teams worldwide. Have appeared on CBS, been recognized by city council, and awarded certificate of congratulations by mayor

## volunteering

- 2015–2016 **TeamUp! Challenge** San Antonio, Texas
- Plan and teach a science curriculum about the earth, biodiversity, and energy for local elementary schools through the San Antonio Spurs' "Silver and Black Give Back" program
- 2014–2016 **HACKERS, Inc.** San Antonio, Texas
- Teach LEGO Mindstorms robotics at a nonprofit camp for elementary and middle schoolers
- 2013 **National Museum of Nuclear Science** Albuquerque, New Mexico
- Hosted "Dynamics of Flight" exhibit and taught visitors about the history and science of everything nuclear

## awards

2014–2016 **National Honors Society**  
2015 **AP Scholar with Distinction**  
2015 **National Merit Commended**

TMI - The Episcopal School of Texas

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## experience

2012–Now **Ingress (Niantic, Inc.)**  
*Regional Moderator*  
Ingress is a game made by Google where the entire world is the playing field shared by 2 teams

- Created and manage the South Texas roster website and database
  - satxresist.com
- Improved the usability of Google's web app by JavaScript bookmarklets for thousands of users
- Manage cross-team affairs and global operations

2017 **General Dynamics Mission Systems**  
*Cybersecurity Intern*  
San Antonio, Texas

- Worked on PitBull and TNE development and management tools
  - PitBull is a Multilevel Security (MLS) Linux Operating System based on Red Hat Enterprise Linux
  - Trusted Network Environment (TNE) is built on top of PitBull and shipped to U.S. Department of Defense and Federal Agencies for handling operations and information at any security level
- Created PitBull Health Console/LogViewer
  - Reduces time to diagnose system problems
  - Analyze multiple machines in one session
- Developed PitBull/TNE testing tools
  - Tests through operating system tasks to ensure successful integration
  - Can run headless or be configured to run specific tests

2015 **Parlevel Systems**  
*Summer Intern*  
San Antonio, Texas

- Worked on the development of analytical software for vending machine operators
- Developed the company's foray into micromarkets; now in use at Rackspace/Geekdom

## projects

2012–Now **Android**  
San Antonio, Texas  
Created ROMs and wireless chargers for the HTC One X and OnePlus One (adb/fastboot)

2017 **Smash Bros LaunchPad**  
Austin, Texas  
Developed in C and Assembly, this adaptation of Smash Bros runs on a TI LaunchPad. Wrote LCD drivers, audio output control, joystick and button inputs. Wired inputs, display, audio jack, and vibration motor to board

2016 **Waterslide**  
Boerne, Texas  
Right after graduation, my friends and I built a 12' tall waterslide in 2 days

2015–2016 **Car Diagnostics Logger**  
San Antonio, Texas  
Raspberry Pi in my glove compartment for logging my car's stats (intake temp, RPM, MPG, etc) every  $\frac{1}{4}$  second

2013 **Chromecast**  
San Antonio, Texas  
Discovered tools that were published on ReadWriteWeb and XDA Developers

2013 **CygwinHere**  
San Antonio, Texas  
Cygwin is a Windows mod to bridge CMD and Linux CLI. My registry tweak ports the "Open in Terminal" function to Cygwin