

# umersalman

## contact

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## programming

CSS3 & HTML5  
PHP (♥ Laravel)  
MySQL  
JavaScript, CoffeeScript  
jQuery  
Java, C, 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  
Burp Suite  
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	<b>National Honors Society</b>	TMI - The Episcopal School of Texas
2015	<b>AP Scholar with Distinction</b>	TMI - The Episcopal School of Texas
2015	<b>National Merit Commended</b>	TMI - The Episcopal School of Texas

## experience

2012–Now	<b>Ingress (Niantic, Inc.)</b> <i>Regional Moderator</i> Ingress is a game made by Google where the entire world is the playing field shared by 2 teams <ul style="list-style-type: none"><li>• Created and manage the South Texas roster website and database<ul style="list-style-type: none"><li>– satxresist.com</li></ul></li><li>• Improved the usability of Google's web app by JavaScript bookmarklets for thousands of users</li><li>• Manage cross-team affairs and global operations</li></ul>	
2017	<b>General Dynamics Mission Systems</b> <i>Cybersecurity Intern</i> <ul style="list-style-type: none"><li>• Worked on PitBull and TNE development and management tools<ul style="list-style-type: none"><li>– PitBull is a Multilevel Security (MLS) Linux Operating System based on Red Hat Enterprise Linux</li><li>– 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</li></ul></li><li>• Created PitBull Health Console/LogViewer<ul style="list-style-type: none"><li>– Reduces time to diagnose system problems</li><li>– Analyze multiple machines in one session</li></ul></li><li>• Developed PitBull/TNE testing tools<ul style="list-style-type: none"><li>– Tests through operating system tasks to ensure successful integration</li><li>– Can run headless or be configured to run specific tests</li></ul></li></ul>	San Antonio, Texas
2015	<b>Parlevel Systems</b> <i>Summer Intern</i> <ul style="list-style-type: none"><li>• Worked on the development of analytical software for vending machine operators</li><li>• Developed the company's foray into micromarkets; now in use at Rackspace/Geekdom</li></ul>	San Antonio, Texas

## projects

2012–Now	<b>Android</b> Created ROMs and wireless chargers for the HTC One X and OnePlus One (adb/fastboot)	San Antonio, Texas
2017	<b>Smash Bros LaunchPad</b> 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	Austin, Texas
2016	<b>Waterslide</b> Right after graduation, my friends and I built a 12' tall waterslide in 2 days	Boerne, Texas
2015–2016	<b>Car Diagnostics Logger</b> Raspberry Pi in my glove compartment for logging my car's stats (intake temp, RPM, MPG, etc) every 1/4 second	San Antonio, Texas
2013	<b>Chromecast</b> Discovered tools that were published on ReadWriteWeb and XDA Developers	San Antonio, Texas
2013	<b>CygwinHere</b> Cygwin is a Windows mod to bridge CMD and Linux CLI. My registry tweak ports the "Open in Terminal" function to Cygwin	San Antonio, Texas