

# umersalman

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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)  
Ruby, Python  
TIBASIC  
Git, SVN, Mercurial

## operating systems

Linux  
Android  
OS X  
iOS  
Windows  
BSD

## software skills

Basic SolidWorks  
CyberLink PowerDirector  
Eclipse  
Android Studio  
Paint.NET

## high school

2013–Now **10<sup>th</sup>-12<sup>th</sup>** grade  
Continued high school in San Antonio, Texas

2012–2013 **9<sup>th</sup>** grade  
Began high school in Jackson, Mississippi

TMI - The Episcopal School of Texas

Saint Andrew's Episcopal School

## extracurriculars

2015–Now **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 soldering skills

2015–Now **CyberPatriot** TMI - The Episcopal School of Texas  
Compete in a National cybersecurity competition funded by Northrop Grumman Corp. and the National Security Agency

2014–Now **Quiz Bowl** TMI - The Episcopal School of Texas  
Compete with other schools in trivia in all academic subjects

2014–Now **National Honors Society** TMI - The Episcopal School of Texas  
Honors students who display excellence in scholarship, leadership, service, and character

2013–Now **Varsity Soccer** TMI - The Episcopal School of Texas  
District Champions in 2013

2013–Now **TMI Science Club** TMI - The Episcopal School of Texas  
Club in which we create science projects and visit science events around San Antonio

2014 **National Student Leadership Conference** Northwestern University  
Attended an Engineering summer camp at a university

2013–2014 **Track and Field** TMI - The Episcopal School of Texas  
Competed in 400m and 800m events at various Texas meets

2013 **Varsity Tennis** Saint Andrew's Episcopal School  
Primarily played doubles

2012–2013 **Mississippi Science Bowl** Saint Andrew's Episcopal School  
Competed in trivia with schools across the state in various science subjects

2012–2013 **Junior Varsity Soccer** Saint Andrew's Episcopal School  
Played starting midfielder

## certifications

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." The course was about traditional and mobile security threats and the underground ecosystem that drives that illegal, yet profitable, business

## awards

2015	<b>AP Scholar</b> Received due to high achievement on multiple AP tests	TMI - The Episcopal School of Texas
2015	<b>National Merit</b> National Merit Commended Student	TMI - The Episcopal School of Texas
2013-2014	<b>National Spanish Exam</b> Earned 2 Silver awards for Spanish proficiency	TMI - The Episcopal School of Texas
2013	<b>Erasmus Award</b> Awarded to the student that is most driven and most excited about learning	Saint Andrew's Episcopal School

## projects

2012-Now	<b>Android</b> Heavily involved in the Android development community <ul style="list-style-type: none"><li>• Software<ul style="list-style-type: none"><li>- Created ROMs for the HTC One X and OnePlus One (adb/fastboot)</li><li>- Built an app to allow phone/tablet to function as a 2<sup>nd</sup> monitor for a computer</li><li>- Made scripts for a phone to function as a smartwatch (WiFi, Bluetooth)</li><li>- Named a Snapchat filter</li></ul></li><li>• Hardware<ul style="list-style-type: none"><li>- Built an IR blaster</li><li>- Created a wireless charger for HTC One X</li></ul></li></ul>	San Antonio, Texas
2013	<b>Simple Source Viewer</b> Simple, easy to use app for Windows 8, RT, 8.1, and 10 to allow viewing of the source code of a webpage	San Antonio, Texas
2013	<b>Chromecast</b> Discovered additional tools to expand the potential of the \$35 device. Findings were published on ReadWriteWeb, XDA Developers, and other tech sites	San Antonio, Texas
2013	<b>CygwinHere</b> Cygwin is a Windows CMD mod to bridge CMD and a Linux Terminal. My CygwinHere registry tweak ports over the "Open in Terminal" function	San Antonio, Texas
2012-2014	<b>ExtempEngine</b> ExtempEngine was a Chrome App to automatically download and sort articles from news sources around the world. This allowed easy access to those sources during an extemporaneous debate round without having an internet connection	San Antonio, Texas

# robotics

2014-Now

## FIRST Robotics Competition

Brandeis High School

Build 120 lbs robots to compete against more than 3,000 teams from 19 countries. My team, 3481 BroncBotz, is 1 of 91 BETA teams chosen for robust design, programming skills, and performance on the field. Won multiple awards, including the Motorola Quality Award and the GM Industrial Design Award

- Team Captain
  - Selected due to skills, teamwork, and robotics knowledge
  - Ensure team performs well and does the best the team can
  - Teach newer teammates
- Head of Programming
  - Use Eclipse to program the robot using a C++/Lua hybrid
  - Test and report back to FIRST, WPI, and National Instruments regarding BETA software which includes
    - \* Open-sourcing every piece of Team-developed code
    - \* Ensuring all code is well commented and correctly documented
  - Teach younger teammates how to
    - \* Program in C++ using Eclipse IDE
    - \* Understand what the various toolchains and libraries are
    - \* Flash the roboRIO
  - Run system checks to ensure robot communicates with computer and controllers prior to a match
  - Create vision systems for the robot drivers
- Head of Scouting
  - Create a system for teammates to use for statistics on other teams
  - Organize the data using spreadsheets, TableAU, and in house built programs
  - Create a "pick list" of robots to alliance with, based off quantitative and qualitative data, as well as the robots' compatibility with our own
- Team Lead in Design
  - Facilitate the design process to take all aspects of the competition tasks into consideration for the design
  - Manage the SVN repository containing the SolidWorks CAD files
- Team Lead in Build
  - Teach newer teammates to use power tools safely
  - Oversee that parts are fabricated according to the design

2013-Now

## FIRST Tech Challenge

TMI - The Episcopal School of Texas

Build robots to compete against over 5,000 other teams from various countries. My team, 6221 Panther Bots Alpha, has ranked in the top 3% of teams worldwide, earning us a spot in the world championship

- Team Captain
  - Manage and organize the team's meetings and events
  - Act as a liaison between the school and the team
- Head of Programming
  - Use Java in Android Studio to program the robots
  - Teach the newer teammates how Android Studio and the ZTE Speed control system works
- Team Accomplishments
  - Featured on the FIRST Facebook page
  - Appeared on CBS
  - Recognized at city council and awarded certificate of congratulations by mayor
  - Invited to display at Austin Mini Maker Faire

## speech and debate

2012-2013	<b>Policy (CX) Debate</b> An extremely fast paced, evidence-based debate to analyze potential federal government plans	Saint Andrew's Episcopal School
	<ul style="list-style-type: none"> <li>• Qualified and competed at NCFL Nationals</li> <li>• Competed at colleges, including Harvard and Mississippi State</li> <li>• Won 2<sup>nd</sup> in state</li> </ul>	
2012-2013	<b>International Extemporaneous</b> Prepared and delivered 7 minute speeches regarding international affairs. Ranked highly at every competition	Saint Andrew's Episcopal School
2012-2013	<b>Congress</b> Competed in mock Congressional debate	Saint Andrew's Episcopal School
2012-2013	<b>Degree of Distinction</b> Awarded due to consistently ranking highly in competition. Ranks above Degree of Merit, Degree of Honor, and Degree of Excellence	Saint Andrew's Episcopal School

## volunteering

2015-Now	<b>TeamUp! Challenge</b> Plan and teach a science curriculum about the history of the earth and biodiversity for local elementary schools through the San Antonio Spurs' "Silver and Black Give Back" program	San Antonio, Texas
2014-Now	<b>HACKERS, Inc.</b> Teach LEGO Mindstorms robotics at a nonprofit camp for elementary and middle schoolers	San Antonio, Texas
2015	<b>Northside Tech Expo</b> Present our FIRST Robotics Competition robot to Northside ISD students and parents to let them see what STEM programs are available to them	San Antonio, Texas
2014	<b>Austin Mini Maker Faire</b> Showed our FIRST Tech Challenge robots to the public to get them interested about robotics	Austin, Texas
2013	<b>National Museum of Nuclear Science</b> Hosted "Dynamics of Flight" exhibit <ul style="list-style-type: none"> <li>• Ran the flight simulators</li> <li>• Taught visitors about the history and science of everything nuclear</li> <li>• Explained to children the way different planes work</li> </ul>	Albuquerque, New Mexico
2013	<b>Albuquerque Presbyterian Hospital</b> Volunteered at childlife and children's cancer centers, which sought to minimize stress and help children and their families cope with their healthcare experience	Albuquerque, New Mexico
2013	<b>New Mexico Food Bank</b> Distributed food and other items to various charities	Albuquerque, New Mexico
2012	<b>Operation Soccerstring</b> Taught 1 <sup>st</sup> and 2 <sup>nd</sup> graders soccer and arts and crafts	Jackson, Mississippi
2012	<b>Our Daily Bread</b> Packaged food for families in need	Jackson, Mississippi
2012	<b>Operation Shoestring</b> Organized school for poverty-stricken children	Jackson, Mississippi

## work 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. Thus, coordination on a global scale must occur <ul style="list-style-type: none"><li>• Created and manage the South Texas roster website<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 to ensure safe play for all</li><li>• Oversee operations that span multiple continents</li><li>• Directly communicate with hundreds of others to facilitate operations</li></ul>	
2011-Now	<b>Socialcu.be</b> <i>Developer, Administrator, and Moderator</i> Developed a social networking platform that is home to over 2,000 users	
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 in North America</li><li>• Developed the company's foray into micromarkets<ul style="list-style-type: none"><li>– Generates roughly \$50/day per location</li></ul></li><li>• Created web tools to allow the company itself to run more efficiently</li></ul>	San Antonio, Texas
2014	<b>Tots N Teens Pediatric Urgent Care</b> <i>Logo Creator and Website Manager</i> Created the logo for a local urgent care clinic	San Antonio, Texas
2014	<b>Umer936</b> <i>Website Builder</i> Built professional websites for businesses and clients by employing web development skills	San Antonio, Texas

## skills and interests

**professional:** coding, programming, creating, web design, web app creation, software design, building, wiring, computer software, tech

**personal:** puzzles, math, listening to others (7cupsoftea.com), computer hardware, reading (science and mystery books)

**languages:** conversant in Urdu, Spanish semi-fluency, can read Arabic and Greek