umersalman

contact 24 Galleria Drive	educa	tion	
San Antonio, TX 78257	2016-Now	Electrical and Computer Engineering Class of 2020 University of Texas at Austin	
USA	2013-2016	High School at Texas Military Institute (TMI) TMI - The Episcopal School of Texas	
(936) 463 8626 umer936@gmail.com	2013	Certification of Graduate-Level Course 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 ecosys-	
umer936@utexas.edu umer936.com	2012-2013		
github.com/umer936 fb://Umer936 google/+umersalman	projec 2012-Now	Android San Antonio, Texas Heavily involved in the Android development community • Software	
programming CSS3 & HTML5 PHP (♥ Laravel) MySQL		 Created ROMs for the HTC One X and OnePlus One (adb/fastboot) Named a Snapchat filter Hardware Built an IR blaster Created a wireless charger for HTC One X 	
JavaScript, CoffeeScript jQuery	2016-Now	Password Requirements Currently writing a Chrome extension for crowdsourcing password requirement information	
Java, C++ ET _E X (this résumé) Python TIBASIC	2017	Smash Bros LaunchPad 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	
Assembly MATLAB LabVIEW	2016	Make Something Great Again Inspired by Donald Trump's slogan and logo, I created makesomethinggreatagain.com	
Git, SVN, Mercurial	2016	Bluetooth Speaker Built a Bluetooth speaker for just under \$4 San Antonio, Texas	
operating systems Linux Android OS X iOS Windows	2016	Waterslide Right after graduation, my friends and I built a 12' tall waterslide in 2 days	
	2015–2016	Car Diagnostics Logger Raspberry Pi in my glove compartment for logging my car's stats (intake temp, RPM, MPG, etc) every ½ second	
	2013	Simple Source Viewer San Antonio, Texas Simple, easy to use app for Windows 8, RT, 8.1, and 10 to view the source code of a webpage	
software skills Basic SolidWorks	2013	Chromecast Discovered additional tools to expand the potential of the \$35 device. Findings were published on ReadWriteWeb, XDA Developers, and other tech sites	
CyberLink PowerDirector Eclipse TableAU Android Studio Paint.NET	2013	CygwinHere San Antonio, Texas Cygwin is a Windows CMD mod to bridge CMD and a Linux Terminal. My registry tweak ports over the "Open in Terminal" function	
	2012–2014	ExtempEngine Developed a Chrome App to automatically download and sort articles from news sources allowing easy access during an extemporaneous debate round without internet connection	

extracurriculars

2017 Na	Tarres Assist Delegation (TAD)			
2017-Now	Texas Aerial Robotics (TAR) Founded a club to compete in the International Aerial Robot autonomous quadcopter. Uses computer vision and multiple with moving ground robots. Placed 4 th in our first run	1		
2016-Now	IEEE-Communications Society (IEEE ComSoc) Spread awareness about and prevention of software and hard	University of Texas at Austin ware vulnerabilities		
2016-Now	Muslim Student Association (MSA) Carry out religious, social, charitable, literary, athletic, scientificativities	University of Texas at Austin fic, research, and other Islamic		
2016-Now	Women in ECE (WECE) Promote diversity, volunteer, and bring together all ECE stude	University of Texas at Austin		
2015–2016	TMI Maker Club 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 Ranked Platinum, the highest tier, in a National cybersec Northrop Grumman Corp.	TMI - The Episcopal School of Texas curity competition funded by		
2014–2016	Quiz Bowl Compete with other schools in trivia in all academic subjects	TMI - The Episcopal School of Texas		
2014–2016	National Honors Society Honors students who display excellence in scholarship, leader	TMI - The Episcopal School of Texas ship, service, and character		
2013–2016	Varsity Soccer District Champions in 2013	TMI - The Episcopal School of Texas		
2013–2016	TMI Science Club Club in which we create science projects and visit science ever	TMI - The Episcopal School of Texas nts around San Antonio		
2014	National Student Leadership Conference Attended an Engineering summer camp at a university	Northwestern University		
2013-2014	Track and Field Competed in 400m and 800m events at various Texas meets	TMI - The Episcopal School of Texas		
2013	Varsity Tennis Primarily played doubles	Saint Andrew's Episcopal School		
2012–2013	Mississippi Science Bowl Competed in trivia with schools across the state in various scie	Saint Andrew's Episcopal School ence subjects		
2012–2013	Junior Varsity Soccer Played starting midfielder	Saint Andrew's Episcopal School		

robotics

2014–2016 FIRST Robotics Competition

Brandeis High Schoo

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 awards including Motorola Quality Award (x3), GM Industrial Design Award, and Delphi Excellence in Engineering 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 all code
 - * Ensuring all code is well commented
 - 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
 - Created an offline website for teammates to use for gathering 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

2013–2016 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

awards

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

volunteering

2015–2016	TeamUp! Challenge Plan and teach a science curriculum about the history of the earth elementary schools through the San Antonio Spurs' "Silver and Black a				
2014–2016	HACKERS, Inc. Teach LEGO Mindstorms robotics at a nonprofit camp for elementary	San Antonio, Texas ry and middle schoolers			
2015	Northside Tech Expo Present our FIRST Robotics Competition robot to Northside ISD students and parents to let them see what STEM programs are available to them				
2014	Austin Mini Maker Faire Showed our FIRST Tech Challenge robots to the public to get them interested about robotics				
2013	National Museum of Nuclear Science Hosted "Dynamics of Flight" exhibit Ran the flight simulators Taught visitors about the history and science of everything nuese Explained to children the way different planes work	Albuquerque, New Mexico			
2013	Albuquerque Presbyterian Hospital Volunteered at childlife and children's cancer centers, which sough help children and their families cope with their healthcare experience.				
2013	New Mexico Food Bank Distributed food and other items to various charities	Albuquerque, New Mexico			
2012	Operation Soccerstring Taught 1 st and 2 nd graders soccer and arts and crafts	Jackson, Mississippi			
2012	Our Daily Bread Packaged food for families in need	Jackson, Mississippi			
2012	Operation Shoestring Organized school for poverty-stricken children	Jackson, Mississippi			

speech and debate

2012–2013 **Policy (CX) Debate**

Saint Andrew's Episcopal School

An extremely fast paced, evidence-based debate to analyze potential federal government plans

- Qualified and competed at NCFL Nationals
- Competed at colleges, including Harvard and Mississippi State
- Won 2nd in state

2012–2013 International Extemporaneous

Saint Andrew's Episcopal School

Prepared and delivered 7 minute speeches regarding international affairs. Ranked highly at every competition

2012-2013 **Congress**

Saint Andrew's Episcopal School

Competed in mock Congressional debate

2012–2013 **Degree of Distinction**

Saint Andrew's Episcopal School

Awarded due to consistently ranking highly in competition. Ranks above Degree of Merit, Degree of Honor, and Degree of Excellence

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. Thus, coordination on a global scale must occur

- 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
 - Including a mobile version that receives 33k visits a year
- Manage cross-team affairs to ensure safe play for all
- Oversee operations that span multiple continents
- Directly communicate with hundreds of others to facilitate operations

2011-Now Socialcu.be

Developer, Moderator

Moderate a social networking platform that is home to over 2,000 users

2017 General Dynamics Mission Systems

San Antonio Texas

Cybersecurity Intern

- 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

2016 TMI Paths of Life

TMI - The Episcopal School of Texas

Created a 50 page whitepaper for students at my school to find the best colleges and jobs for their futures

2015 Parlevel Systems

San Antonio, Texas

Summer Intern

- Worked on the development of analytical software for vending machine operators in North America
- Developed the company's foray into micromarkets
 - Generates roughly \$50/day per location
 - In use at Rackspace/Geekdom
- Created web tools to allow the company itself to run more efficiently

2014 Tots N Teens Pediatric Urgent Care

San Antonio, Texas

Logo Creator and Website Manager

Created the logo for a local urgent care clinic

2014 **Umer936**

San Antonio, Texas

Website Builder

Built professional websites for businesses and clients by employing web development skills

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), typography, computer hardware, reading (science, mystery)

references

Mr. Rafael Barroso

Parlevel Systems, CIO & Co-Founder Worked under him during internship 112 E. Pecan St, 11th Floor San Antonio, TX 78205 rafa@parlevelsystems.com (210) 200 8873

Mr. Michael Blake

San Antonio Competition Robotics Alliance, Inc. Head coach for my FIRST Robotics Competition team 15842 Hachita Blanco Helotes, TX 78023 michaelblake@insurancelabs.com (210) 710 6632

Mr. James Lewey

HACKERS, Inc.
Owns the nonprofit camp I teach at PO Box 39066
San Antonio, TX 78218
james@hackersinc.org
(210) 201 2036