

Tyler A. Martinez

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Education

University of North Texas class of 2023

- Major in Computer Science
- Minor in Mathematics

Courses

- CSCE 2210 Data Structures
 - EENG 3710 Computer Organizations
 - EENG 2710 Digital Logic Design
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Experience

UNT Robotics Treasurer (Cofounded of UNT Robotics) (Member since 2018 – Present)

- ❖ I manage the costs, and budgeting for all Robotics projects. Also, I teach Hardware Design I & II
- **UNT IEEE R5 Competition 19 (Fall and Spring of 2019)**
 - ❖ I built the power distribution board that ran on 3 different logic levels and coded the program to controller motors on the bottom and arm of the robot from the single board computer
- **UNT SofaBot (Summer of 2019 – Present)**
 - ❖ I created the entire schematic for the robot. Then wired and built the circuit to control the motors, lights, and electrical braking system.

HackUTD VI (3rd Place Winner) (Best Use of ESRI Technology) (MLH- Best UiPath Automation Hack)

- **Pothole Project** – Our project automatically detects potholes with CV, and vibration sensors. Once a Pothole is detected a python script on the raspberry pi automatically fill out a complaint to the district you are in and sends them a report with the location of the pothole with the use of a GPS module.

HackUNT III (1st place winner in RESPEC sponsorship challenge)

- **ReStep** - Our project is a simple pedometer counter, that takes the number of steps an employee walks, gets an average from all employees participating, and puts it as a tag for that specific location. Then shows on the website and app where you rank in comparison to other office locations. We made 3 versions, an android app, which was developed in android studio, Swift was used for the IOS version, and we used JavaScript as well as html / CSS for the website.

HackUNT VI

- **Find-A-Group** - Our project is a cross-platform application that works on Web, Desktop (MacOS and Windows), and Mobile (IOS and Android). The application allows users to instantly connect and chat with other users in their areas. We made the application by using the Quasar Platform to make it cross-platform, Vue.js for a responsive frontend, and Node.js for a dependable backend.

Robotics Tutor (September of 2019)

- I created electronics and software workshops and advised senior design groups in their projects.

North Texas Daily -Web Developer and Designer (August of 2019)

- ❖ Run and manage the school's website and create graphic designs for the school newspaper
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Skills

Worked with

- React.js and Node.js
- Firebase Database
- Google Cloud Services and Heroku

Programing Languages

- C/C++ 14
- Python 3.9
- HTML 5 / CSS 3
- PHP 7 and JavaScript