

# Atilano (Tilo) Garcia

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## EDUCATION

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### Hendrickson High School - Pflugerville, TX

Graduated 2019

GPA: 3.90; Class Rank: 7/812

Relevant Coursework: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, AP Calculus BC, AP Statistics

### The University of Texas at Austin - Computer and Electrical Engineering Major

Expected Graduation

Current GPA: 3.9266

Time: Spring 2023

Relevant Coursework: Introduction to Computing, Introduction to Engineering (Linear Circuit Analysis), Intro to Embedded System, Software Design and Implementation I, Circuit Theory

## TECHNICAL EXPERIENCE

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### Code2College - Technical Consultant

September 2020

- Present

- Provide technical advice for the continuation of the learning management system
- Refine and maintain existing solutions to make products more efficient for Directors and Founders
- Develop new features and solutions that make the system more valuable for all users
  - Utilized Python, Django, HTML, and Bootstrap 5 to improve upon the project
  - Utilized Jira and Github to keep the project organized

### HackTX - Participant

October 2020

- Accepted to participate in The University of Texas at Austin's 36 hour hackathon
- Worked on an application that would randomly generate a map(terrain) that was then displayed using augmented reality
- Developed a basic Unity Android app that could enhance tabletop games like Dungeons and Dragons
- Learned about how augmented reality works and about current/future applications of the technology

### HackMIT - Participant

September 2020

- Accepted to participate in Massachusetts Institute of Technology's 36 hour hackathon
- Developed a tool to help beginner engineers and software developers learn the technical aspect of neural networks
- Created a website that will dynamically create neural network code based on a number of inputs
  - Designed to decrease the mathematical gap of beginner programs that can deter beginner engineers from considering neural networks as an effective solution
- Learned more about how neural networks work and the different ways they can be implemented

### Code2College - Labs Team Lead - Software Engineer Intern

Summer 2020

- Developed a one-stop shop for the organization's member information and program curriculum
- Directly managed and helped a team of 5 other interns
- Communicated with Directors and Founders of the organization to deliver the end product
- Developed and guided product from start to finish
  - Utilized Python, Django, and Bootstrap 5 to develop the project
  - Utilized Jira and Github to keep the project organized
  - Managed product deployments for the team
  - Product is now deeply embedded into the organization

### Indeed.com - Software Engineer Intern

Summer 2019

- Worked in the Indeed Incubator, an internal startup program
- Overhauled the company process for planning quarterly reviews into a website
- Reduced planning time from 100+ hours by utilizing responsive user interface
- Worked closely with stakeholders for product feedback and constant improvements
  - Lead planning meetings and discussions between Chief of Staff
  - Took notes during meetings that lead to actionable items
- Utilized Jira and Github to keep the project organized
- Used HTML, CSS, Javascript, External libraries, Python, Django, Bootstrap 5
- Quantitative results to come next quarter

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**Indeed.com - Software Engineer Intern**

Summer 2018

- Worked on the Small-Medium Business Moderation Team
- Pulled in data from many sources around the company to display on web pages
- Helped moderators identify fraudulent and harmful accounts
- Project is used on every item that needs to be reviewed by moderators

**aLift - Project Engineer**

2018 - 2019

- Senior Engineering Capstone Project
  - Part of Project Lead The Way
  - Problem: Modern kitchens are not sufficiently equipped for shorter people
- Brainstormed ideas and checked for prior art
  - Included created mind maps, sketches, and model creation
- Created justification for the chosen problem
- Contacted experts for advice on construction
  - Assisted with welding parts together and provided general guidance
- Recruited sponsors to donate materials for our project
- Built a completed prototype of our solution
  - Created a lift that extends to a step that can be used to reach higher spaces
  - Capable of supporting over 300 lbs. of weight- handled two people jumping on it as well
  - Increased height by 12 inches

**Robotics Starstruck Game - Participant, State Technology Student Association Competition**

2016 - 2017

- Built a robot capable of tank movement with a vertically extending arm
  - Arm was used to pick up cones to stack them in various parts of the arena
- Coded for autonomous and user driven control of the robot using RobotC
  - Autonomous code used pre-programmed routine for robot to follow
  - User driven control constantly checked wirelessly connected remote for input changes

**Blink Of Your Eye - IT Support**

2014 - 2015

- On call for website consulting and changes
- Turned requested behaviors into actionable items
- Helped client redesign and organize website through changes to the user experience of website visitor

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**VOLUNTEER EXPERIENCE & ACTIVITIES****Free Souls Church - Technology Director**

2014 - 2019

- Supervised purchase of necessary technology and equipment
  - Gave advice for new computer and television purchases
- Set up, maintained, and operated technology and software for presentation
  - Met once a week for congregation

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**EXTRACURRICULAR ACTIVITIES**

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| • National Honor Society, <i>Vice President &amp; Member</i>                           | 2017 - 2019    |
| • Hendrickson HS Band, <i>Section Leader &amp; Member</i>                              | 2017 - 2019    |
| • Technology Student Association, <i>Vice President, Robotics Captain &amp; Member</i> | 2015 - 2019    |
| • <i>Pflugerville ISD Superintendent's Leadership Experience, Member</i>               | 2015 - 2019    |
| • Longhorn Marching Band, <i>Member</i>  | 2019 - Present |
| • Longhorn Pep Band, <i>Member</i>   | 2020 - Present |

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**ADDITIONAL INFORMATION**

**Computer Skills:** C, C++, Python, Assembly, Java, Django, HTML, JavaScript, jQuery, Bootstrap, Visual Basic Script, RobotC-based on C (advanced knowledge); MySQL (intermediate knowledge); CSS, R, Spring, RabbitMQ, Soy (basic knowledge)

**Interests:** Machine Learning, Data Structures, Encryption Methods