

# CLIVE UNGER

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## EDUCATION

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**The University of Texas at Austin** Bachelor of Science, Electrical and Computer Engineering May 2020  
Minor: McCombs Business Foundations  
Overall GPA: 3.78 | Major GPA: 3.86

**Coursework** Algorithms, Probability, Software Design I & II, Linear Systems & Signals, Intro. Embedded Systems

## EXPERIENCE

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**NXP Semiconductors** – Software Engineering Intern May 2018 – Aug 2018

- Created data scraping Perl program to build a multi-level hash table from metric data in memory compiler automation flow.
- Identified key bugs in the automation flow, which lead to a 20% improvement in data collection accuracy.
- Designed, from scratch, schema for MySQL database and wrote complex queries to interpret data.
- Automated the generation of performance reports and presented analytics to upper level management.

**UT Solar Vehicle Team** – Electrical Team Member Jan 2017 – Aug 2017

- Updated and built the subsystems of a six-year-old solar powered car, attaining 50% more performance from previous races.
- Lead five-person sub-team to debug mission critical systems of vehicle during the 2017 American Solar Challenge.
- Researched embedded systems solutions for solar powered vehicles to aid team in development of new car.

**Insurors Indemnity** – Web Developer Jun 2016 – Aug 2016

- Built a web component using React and Redux to populate a PDF with customer information and signatures.
- Reduced steps in company's work flow by developing a system to electronically process orders, previously mail-only.

## PROJECTS

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**Twitter Sentiment Analysis** – HackTX, 24-hour hackathon Oct 2017

- Built and deployed a Python based web application to return sentiment data from Twitter based on a user inputted topic.
- Utilized Flask framework for backend, Tweepy library for Twitter API, and Textblob library for text processing.
- Accomplished project under 24 hours with a team of four and utilized GitHub for project collaboration.

**McCombs Summer Institute** – Startup Project May 2017 – Aug 2017

- Developed the necessary components for a startup company with a team of five over the span of the semester.
- Conducted market validation by conducting 100+ person survey to pinpoint target customers and form a business strategy.
- Researched and developed marketing strategy, legal formation, and financial plan for mock company.

**Embedded Game Design** – Intro. Embedded Systems Final Project Jan 2017 – May 2017

- Interfaced hardware and software to create an original game on two ARM based microcontrollers.
- Programmed driver in C utilizing the UART protocol for distributed computing multiplayer gameplay.
- Achieved all bonus credit by implementing edge-triggered interrupts, UART, double-buffered graphics, and sound effects.

## LEADERSHIP EXPERIENCE AND ACTIVITIES

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**Texas Iron Spikes** – Men's Service and Spirit Organization Aug 2017 – Present

- Won New Member of the Semester Award, Fall 2017; Selected for outstanding commitment to organization.
- Served as Administrative Officer, Spring 2018; Second time in history of org that a new member was elected.

**First-Year Interest Group (FIG)** – Lead mentor Jan 2017 – Dec 2017

- Assist the social and academic integration of 20 Freshmen into the college atmosphere through weekly seminars.
- Organize professor visit, time management lessons, registration advising, and team building exercises.

## SKILLS & ACCOMPLISHMENTS

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**Computer Skills:** Python, Java, Perl, C, C++, Git, Linux, Excel, SQL, ARM Assembly, HTML/CSS, JavaScript, React/Redux, Node.js

**Honors:** Eta Kappa Nu (HKN), Unrestricted Endowed Presidential Scholar, University Honors, National AP Scholar

**Interests:** Basketball, PC gaming, live music