CLIVE UNGER

clive.unger@utexas.edu | (254) 722-1897

EDUCATION

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

NXP Semiconductors – Software Engineering Intern   May 2018 – Aug 2018
- Developed data analysis tool in Perl to extract and organize metric data from memory compiler automation logs.
- Improved data collection accuracy by 20% by identifying critical bugs in the automation flow.
- Designed schema for MySQL database and wrote complex queries to interpret data and identify errors.
- 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

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
- Created 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

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

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