

Matthew W. Edwards

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Education

Bachelor of Science, Electrical and Computer Engineering, The University of Texas at Austin 05/2018

Technical Cores: Signals, Communications, and Software

GPA: 3.82/4.00 With Honors

Related Coursework

Software Design I & II | Software Design Lab | Algorithms | Real-Time Signal Processing

Digital Signal Processing | Image and Video Processing | Automatic Controls | Data Science Laboratory

Employment

Software Engineer, GenXComm Incorporated 05/2018 – Present

- Developed embedded software on FPGAs and DSPs to control signal processing systems
- Collaborated with photonics hardware team to determine software needs

Honors Scholars Intern, Applied Research Laboratory: UT Austin 06/2017 – 08/2017

- Designed and developed an API for decoding and reformatting arbitrary sensor data
- Collaborated with supervisor and researchers to determine the function and scope of the API
- Programmed API using C++ and made use of other in-house API tools

Peer Adviser and Tutor, The University of Texas at Austin 09/2015 – 05/2018

- Aid electrical engineering students by offering academic guidance
- Help at-risk students improve their academic performance
- Tutored students in Freshman and Sophomore mathematics and electrical engineering courses
- Taught students individually and with fellow tutors

Academic Projects

Face Mask Generator and Overlay | MatLab, Python

- Collaborated with two other students on a semester-long project for image and video processing class
- Used image processing techniques to develop a system which generated a digital representation of a user's face from a single image and overlaid that representation on another user's face in real-time

Hurricane Damage Classifier Using Tweets | Python

- Worked with three peers to find relationships between Hurricane Sandy damage and tweets
- Extracted information from tweets using natural language processing techniques and used this information to train a network to classify the severity of damage in the NYC-area by zip code

Technical Skills

- Proficient: C, Python
- Familiar: HTML, CSS, Assembly, JavaScript, Java, C++
- Software Tools: Eclipse, MatLab, Linux, Bash, Google App Engine

Memberships and Awards

- Merit scholarship recipient (W. Smith Scholarship) 09/2014 – Present
- Alumni-Adviser Liaison Officer in Texas APO 09/2016 – 12/2017
- Member of HKN (Electrical Engineering Honor Society) 09/2016 – Present