

TROY FULTON

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EDUCATION

Texas A&M University, College Station, TX
Bachelor of Science in Computer Science
Minor in Embedded Systems Integration and Mathematics

May 2020
GPR 4.0

EXPERIENCE

Texas Instruments- Embedded Processing, Sugar Land, TX
Software Engineering Intern, Compiler Team

May 2019 - July 2019

- Optimized performance of legacy intrinsic sequences for new C7000 DSP architecture using SIMD techniques
- Improved overall compiler performance via software pipelining vectorization as measured by system kernels

Lockheed Martin Enterprise Business Services, Grand Prairie, TX
Applications Intern

May 2018 - August 2018

- Supported corporate operations in Accounting and Production Operations by optimizing daily processes
- Pioneered solutions in SAP HANA Extended Services to be used as multipurpose database JS tools
- Applied knowledge of SQL & RDBMS to JS, as well as Python web scraping and beginner R forecasting

Texas A&M University Engineering, College Station, TX
Peer Teacher (2017-2018) and Supervisory Peer Teacher (2018-Present)

August 2017 - Present

- Foster engineering mindsets and mentor freshman engineers to think algorithmically 10-20 hours per week
- Motivate my students and peers as supervisor by leading weekly training meetings as of Spring 2018

RESEARCH

Undergraduate Research Scholars Program, Texas A&M University
Undergraduate Researcher

August 2019 - May 2020

- Investigate techniques for parallelizing and optimizing Active Routing Algorithms in high-memory On-Chip Networks
- Produce a written undergraduate thesis for publication and a corresponding presentation under the direction of faculty

ACTIVITIES

Texas A&M University Wind Symphony, Texas A&M University
Trumpet Player and Soloist

August 2016 - Present

- Rehearse and perform with the highest-ranking wind band at Texas A&M University for 5 hours a week

Peru Engineering Ethics Study Abroad, Halliburton Global Engineering Programs
Engineering Ethics Student

August 2019

- Gained global perspective of engineering practices, ethics, and culture through class and culture visits for 3 weeks

SKILLS

Proficient	C/C++, Python, MS Visual Studio, Verilog HDL, and x86/ARM/MIPS assembly
Moderately Proficient	Linux (Red Hat, Ubuntu, etc.), Java, R, and C for MCUs like Arduino & TI LaunchPad
Moderate Knowledge	UNREAL Engine, LabVIEW, Haskell, MATLAB, Vivado, and SolidWorks (self-taught)

HONORS

Runner-up Smartcar API Integration Award, TAMUHack 2019 via Smartcar

January 2019

Deans Excellence Award Finalist, Phi Kappa Phi- Texas A&M University Chapter

October 2018

IAP Scholarship, Texas A&M University Industrial Affiliates Program

June 2018, 2019