

TROY FULTON

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EDUCATION

Texas A&M University, College Station, TX May 2020
Bachelor of Science in Computer Science, Summa Cum Laude **GPR 4.0**
University Honors and Engineering Honors
Minor in Embedded Systems Integration and Mathematics

EXPERIENCE

Texas Instruments- Embedded Processing, Sugar Land, TX May 2019 - July 2019
Software Engineering Intern, Compiler Team

- Improved performance of C7000 compiler to improve compatibility with C6000 legacy code
- Optimized legacy C6000 intrinsics for new C7000 DSP architecture using OpenCL
- Improved overall compiler performance via software pipelining vectorization as measured by system kernels

Lockheed Martin Enterprise Business Services, Grand Prairie, TX May 2018 - August 2018
Applications Intern

- Engineered solutions in SAP HANA Extended Services for corporate database operations
- 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 August 2017 - May 2020
Peer Teacher (2017-2018) and Supervisory Peer Teacher (2018-2020)

- Fostered engineering mindsets and mentored freshman engineers to think algorithmically 10-20 hours per week

RESEARCH

Undergraduate Research Scholars Program, Texas A&M University August 2019 - May 2020
Undergraduate Researcher

- Investigated techniques for parallelizing and optimizing Active-Routing in On-Chip Interconnection Networks
- Produced a written undergraduate thesis for publication and presented a poster at a University-wide event
- Currently continuing research for publication in a journal paper on continued work from this thesis

ACTIVITIES

Texas A&M University Wind Symphony, Texas A&M University August 2016 - May 2020
Trumpet Player and Soloist

- 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 August 2019
Engineering Ethics Student

- 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