

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
<i>Software Engineering Intern, Compiler Team</i>	
· 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
<i>Applications Intern</i>	
· 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
<i>Peer Teacher (2017-2018) and Supervisory Peer Teacher (2018-2020)</i>	
· 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
<i>Undergraduate Researcher</i>	
· 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
<i>Trumpet Player and Soloist</i>	
· 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
<i>Engineering Ethics Student</i>	
· 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