

# TROY FULTON

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## EDUCATION

<b>Texas A&amp;M University</b> , College Station, TX Bachelor of Science in Computer Science Minor in Embedded Systems Integration and Mathematics	May 2020 <b>GPR 4.0</b>
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## EXPERIENCE

<b>Texas Instruments- Embedded Processing</b> , Sugar Land, TX <i>Software Engineering Intern, Compiler Team</i>	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	

<b>Lockheed Martin Enterprise Business Services</b> , Grand Prairie, TX <i>Applications Intern</i>	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	

<b>Texas A&amp;M University Engineering</b> , College Station, TX <i>Peer Teacher (2017-2018) and Supervisory Peer Teacher (2018-Present)</i>	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

<b>Undergraduate Research Scholars Program</b> , Texas A&M University <i>Undergraduate Researcher</i>	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

<b>Texas A&amp;M University Wind Symphony</b> , Texas A&M University <i>Trumpet Player and Soloist</i>	August 2016 - Present
· Rehearse and perform with the highest-ranking wind band at Texas A&M University for 5 hours a week	

<b>Peru Engineering Ethics Study Abroad</b> , Halliburton Global Engineering Programs <i>Engineering Ethics Student</i>	August 2019
· Gained global perspective of engineering practices, ethics, and culture through class and culture visits for 3 weeks	

## SKILLS

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

## HONORS

<b>Runner-up Smartcar API Integration Award</b> , TAMUHack 2019 via Smartcar	January 2019
<b>Deans Excellence Award Finalist</b> , Phi Kappa Phi- Texas A&M University Chapter	October 2018
<b>IAP Scholarship</b> , Texas A&M University Industrial Affiliates Program	June 2018, 2019