

# Autumn Twitchell

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## Education

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*Electrical Engineering – Brigham Young University* April, 2020

- Minor: Mathematics
- GPA: 3.81
- Classes: Digital Communication Theory, Discrete-Time Signal Processing, Self-Driving Cars, Design of Control Systems, Embedded Programming, Computer Organization

## Experience

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*Research Assistant – BYU Aeronautical Telemetry Group* February 2019 – Present

- Developed simulations in MATLAB to perform frequency offset estimation implemented in 16-APSK for Edward's Airforce Base
- Implement research on carrier acquisition of digital signals in 16-APSK
- **Published Work:** "DFT-Based Frequency Offset Estimators for 16-APSK," *International Telemetry Conference*, October 2019

*Teaching Assistant – Brigham Young University* January – April 2019

- Answered students' questions concerning analog circuits
- Improved practice quizzes by updating formatting and explanations to solutions

*Technical Intern – Intel* May – August 2018

- Managed and maintained a website that ran failure analysis data on drives manufactured by Intel
- Successfully coded a test in Python that helped my team read data more efficiently

*Missionary – The Church of Jesus Christ of Latter-day Saints* August 2014 – February 2016

- Planned and taught lessons in Spanish to the Hispanic population in the Sacramento, California area

## Skills

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- MATLAB, Python, C, C++, Verilog, SQL, MIPS Assembly
- GitHub, OpenCV, Analog Circuit Design, LTSpice, FPGAs, Vivado, Xilinx SDK
- Spanish

## Associations

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- Tau Beta Pi Honor Society – Service/Mindset Chair
  - plan and execute activities to serve and help children have a positive mindset about engineering
- Eta Kappa Nu Honor Society
- BYU Amateur Radio Club – Amateur Extra License KZ6E
- Society of Women Engineers