# Daniel S. Payne

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## Education

**LeTourneau University,** *Longview, Texas* — August 2017 – May 2021
- Bachelor of Science, Mechanical Engineering with mathematics and computer science minors, ABET Accredited — **GPA 3.6**

**LeTourneau University,** *Longview, Texas* — August 2021 – May 2022
- Master of Science, Engineering, Electrical Concentration

## Experience

**Data Science Intern***, Rely-Ability Risk Management, Mint Hill, NC* — 2019
- Conducted, presented, reported, and documented independent research with support from senior developer
- Used Microsoft Azure ML Studio to develop price optimization regression models
- Used Keras Neural Network and TensorFlow to develop predictive maintenance models
- Developed applications to indict insight from AI models and display the predictions in a live dashboard using various Azure services
- Worked IT support managing ticketing database for Kaaboo Dallas

**Graduate Intern***, LEGRange: LeTourneau Emulated GPS Range, Longview, TX* — 2020-Present
- Engaged in proof-of-concept research for Sandia National labs
- Participated in development of static GPS testing range on the ISM band and robust GPS attacker using custom built software defined radios
- Programmed STM32 ARM Micro Controller Unit in C to manage data communications with computer and Radio Frequency Front End
- Programmed Complex Programmed Logic Device (CPLD) in VHDL to construct base band and handle clocks
- Developed custom data transfer protocols to transfer between Micro Controller and CPLD under strict timing parameters
- Configured board hardware with SPI interface
- Writing C++ classes to calculate receiver clock coefficients to be used in navigation data
- Writing Linux Kernel Module to handle USB communications
- Collaborated with various sub teams to fulfill project goals
- Currently working towards thesis

## Skills

### Software Development
- C/C++
- Python
- Java
- Matlab
- VHDL
- Linux
- Embedded Systems
- USB
- Ethernet
- Git
- Microsoft Azure
- GitHub CI/CD
- Visual Studio
- Clion
- DevOps
- Agile
- Object Oriented Programming
- Data Structures
- Algorithms
- Kalman Filters
- Navigation Systems

### Software
- Solidworks (CSWA Certificate)
- Labview
- Microsoft Office Suite

### Soft Skills
- Scheduling and Project Management
- Research
- Effective Communication
- Efficiency