

Work Experience

- **Texas Instruments** Richardson, TX
Probe Engineering and Manufacturing Supervisor, DFAB Oct 2019 – June 2021
 - Bridge communication between engineering and manufacturing
 - Manage team of 19 technicians and manufacturing specialists
 - Optimization of manufacturing flow through analytics and observability
 - Maintaining and administration of multiple RHEL VM's
 - Protocol test benching: TCP vs UDP vs Unix Sockets
 - R&D: 3-phase, High Frequency, Motor Current Signature Analysis
- **Texas Instruments** Richardson, TX
Diffusion Engineer, DFAB Jan. 2018 – Oct. 2019
 - POCL3 and TEOS Process and Equipment Owner
 - Early development and analytics for pump predictive maintenance
 - Creation of tool stability applications (WSGI, CGI and Spotfire)
- **Texas Instruments** Richardson, TX
Failure Analysis Engineer Intern, DDAO May 2017 – Aug. 2017
 - Troubleshooting package level and die level failures
 - Optimizing recipes for cross-sectioning various package types using 20-watt NSC laser
- **Texas Instruments** Richardson, TX
QRA Engineer Intern, SCT May 2016 – Aug. 2016
 - Assisted active QRA engineer by automating damaged wafer reports (Perl CGI)
 - Developed bash scripts to automate data retention process for post-AVI
- **M.C. Dean** Dallas, TX
Apprentice Electrician May 2012 – Jan. 2015
New Parkland Hospital
 - Step down transformer installation for life safety, critical, equipment and normal power systems
 - Fiber, CAT5/6 and ladder rack pull, install and testing for data centers
Blue Hills Gas Plant Moab, UT
 - Switch gear, VFD & generator installation and termination

Education

- **The University of Texas at Dallas** Richardson, TX
Bachelor of Science in Electrical Engineering; GPA:3.867/4.0 Jan. 2015 – Dec. 2017

Honors

- *Magna Cum Laude, UT Dallas* Dec. 2017

Skills

Operating Systems: GNU/Linux, FreeBSD, Sun Solaris, Microsoft Windows 7/8/10

Languages: C/C++, Python 2.x/3.x, Bash, Perl, Verilog, MATLAB, R, MIPS, Flux, HTML, CSS, Javascript, SQL

Databases: Oracle, MariaDB, PostgreSQL, SQLite, InfluxDB

Software & Libraries: Pspice, Labview, Apache2, Grafana, Spotfire, Pandas, Plotly Dash, Scikit-learn, Git, Telegraf, dbt, Apache Airflow

Activities

- [Blog: Monitoring a Pulse Oximeter with InfluxDB - A Parent's Perspective](#)
- [Heroku App: Pulse-Oximetry Time-Series Forecast](#)