

Nathaniel Hill

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UT Austin '18 BS { Physics
Comp Sci

ACC '17 AS Economics
TSTC '13 AS Engineering



Software Engineer

06/16 – 03/18

Space & Geophysics Laboratory

Maintenance, integration and testing of 500 k-sloc codebase for monitoring GPS satellites. Developed Python bindings for C++ core library and support for new satellite constellations. Built reactive web apps for ionosphere visualization with Node, React, Redux, and D3.

Software Engineer

08/14 – 05/16

Center for Nonlinear Dynamics

Investigating biological systems beyond the diffraction limit using advanced microscopy. Design and analysis of experiments using LabVIEW, Mathematica and Python. Built REST API with Django for experimental data and a responsive front-end with Meteor & React.

Engineering Consultant

06/14 – 05/16

Fidelis Innovation

Consulting in material design, process design, structural engineering, documentation and vendor management. Applied composite materials, light metal alloys and highly engineered content goods to ecological and performance market niches.

Prototype Engineer

02/15 – 06/15

Applied Physical Electronics

Engineering compact, deployable, electromagnetic, pulsed-power warfare tools to US military and defense market. Developed closed-loop process involving rapid prototype design, fabrication, inspection and testing of current-injection systems.

Metrology Engineer

12/13 – 05/14

Flextronics International

Production ramp-up of Apple product line. Programmed metrology lab equipment for dimensional inspection to GD&T specifications and process capability studies. Implemented process improvements to eliminate waste, reduce cycle times and improve quality.

CNC Programmer

08/13 – 12/13

Sanmina Corporation

Programming in high mix environment with SolidWorks and MasterCAM for aerospace, semiconductor, scientific and oil & gas clients. Identified root causes of failures via first article and in-process inspection and implemented corrective and preventative action.