

Timothy W. White

Electrical Engineer

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Education

East Carolina University

B.S. ENGINEERING, ELECTRICAL - IEEE (2014-2016), NASA NATIONAL SPACE GRANT (2014)

Greenville, North Carolina

Aug. 2012 – Dec. 2016

Experience

Stewart Engineers Inc.

ELECTRICAL ENGINEER

Wake Forest, North Carolina

Nov. 2017 – PRESENT

Supporting the design of glass manufacturing facilities from the perspectives of controls, automation, and power distribution:

- Single line diagrams for facility power distribution - Voltage selection, conductor sizing, redundant power, fault protection
- Loop sheets for automation and controls - Datasheet parsing, controls wiring, compatibility verification, AutoCAD Electrical

VarSci LLC

LEAD ELECTRICAL ENGINEER / PROJECT ENGINEER

Fuquay-Varina, North Carolina

Jan. 2017 – Nov. 2017

Forefronted a start-up company in the development of cutting-edge industrial monitoring equipment from the ground up:

- Research & Development of electronics including the development of working schematics and printed circuit boards that comply with UL and CSA standards. *Keywords: RF, RS485, 4-20mA, Modbus, Light-scattering, Electrostatic induction*
- Development of new sensor array methods and technologies for combustible dust measurement
- Managing engineering workflow and creating procedural documents for the implementation of ISO 9001
- Designing and programming company website including contact forms, distribution maps, analytics
- Lead in the implementation of CRM, HRM, and ERP software package

Apex Instruments, Inc.

TECHNICIAN / TECHNICAL SUPPORT STAFF

Fuquay-Varina, North Carolina

May 2016 – Aug. 2016

- Enhanced skills in C# and C++ to create spreadsheet parsing software for large-scale data analysis
- Worked on the diagnosis, repair, and calibration of laminar flow measurement devices
- Aided customers in remote troubleshooting of testing equipment

Tapeworks Graphics

PRODUCT ASSEMBLY / PROCESS DESIGN INTERN

Holly Springs, North Carolina

Jun. 2015 – Sept. 2015

- Programmed Arduino boards in C++ to run stepper motors, sensors and lights to decrease cycle time of assembly processes.
- Set up Google Analytics, Meta tags, AdWords for advertisement, as well as other website tweaks using HTML and CSS.

Keihin North America, Inc.

TEST ENGINEERING INTERN

Tarboro, North Carolina

Aug. 2013 – Jan. 2015

Aided in the design and implementation of electrical testing procedures for the company's Engine Control Units (ECU's). These procedures typically involved high-rate problem solving skills, as well as creative design and hands-on skills like soldering.

- Utilized proficiency in SolidWorks to convert 2D CAD drawing library to 3D, as well as to design new parts
- Became familiarized with Agilent software as well as LabVIEW. Developed a database parsing tool in LabVIEW
- Rewrote technical maintenance procedural documents to include more concise and illustrated instructions

Skills and Abilities

PROFICIENT	HTML, CSS, C#, SolidWorks, MATLAB, Office	2015-2017	LM358 LED Blink	led.timwhite.com
INTERMEDIATE	LabVIEW, Python, Linux, VBA, JS		Arduino Slicer	felt.timwhite.com
BASIC LEVEL	LATEX, PHP, MySQL		Object Detection	track.timwhite.com
		2014-2015	Website Design	timwhite.com
		2013-2014	SolidWorks V12 Engine	engine.timwhite.com