

Jacob A. Thompson

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EDUCATION

Bachelor of Science in Electrical Engineering

Clemson University

Graduated **May 2020**

GPA: 3.95/4.00

Master of Science in Electrical Engineering – Intelligent Systems Focus

Clemson University

December 2021

GPA: 3.77/4.00

INDUSTRY WORK EXPERIENCE

Weapons Systems and Technology Intern

Dynetics

May-Aug 2020

Huntsville, AL

- Assisted development of LTAMDS, a Patriot missile defense system replacement
- Radar simulation code analysis and testing. Debugged PRI offset issue
- Created a variety of charts and graphs in Python comparing radar simulation results

Plant Engineering Intern

Eastman Chemical Company

May-Aug 2019

Kingsport, TN

- Collaborated with a team of 10 on projects involving instrumentation sensors, DCS, AC & DC motors, transformers
- Managed 30+ projects involving quoting, redlining, and designing conversion of float level switches to radar units
- Applied NEC standards to design of in-plant electrical systems
- Volunteered at local YMCA camp teaching kids on “Engineer Days” sponsored by Eastman

Controls Engineering Co-op

JR Automation

May-Aug 2018, Jan-May 2019

Liberty, SC

- Developed PC applications in Visual Studio using C#, VB
- In-house software developer supporting project managers and controls engineers
- Formulated proof-of-concept testing for industrial robotic vision systems (Keyence, Cognex)

Controls Engineering Co-op – Advanced Automation – Greenville, SC

May-Dec 2017

Power Distribution Intern – Eastman Chemical Company – Kingsport, TN

May-Aug 2016

FREELANCE WORK

More projects: www.jacobathompson.com/projects



Commercial Interior LED Sign in partnership with Visiontech LED Signs

2020

Provided consulting for all LED aspects of the sign. Custom designed, fabricated, assembled, and programmed control boxes. Designed animations and provided technical support for LED strip assembly and final construction.

Wifi-Controlled LED Clemson Tiger Paw

2017

2' by 2' laser cut Tiger Paw with LED light strips controlled by ESP8266 and Teensy 3.1. Amazon Alexa integration.

Freelance Photography and Student Sports Photographer

2016-Present

Senior pictures for more than 40 graduated seniors. Sports photography for Clemson Athletic Department. Photography club president 2018. Took pictures at 2020 CFP National Championship for The Tiger Newspaper.

TECHNICAL SKILLS

Passed the FE Exam (2019)

Python/C/C++/C#/VBA

Deep Learning

NFPA NEC

Hackathon mentoring

Microsoft Office

CAMPUS ACTIVITIES

Ultimate Frisbee Club Team

Fall 2015 – Present

Intramural Sports (Volleyball, Ultimate Frisbee, Tennis, Racquetball Champion)

Spring 2016 – Present

Makerspace Partnership (Hackathon Mentor, Makerday demos)

Fall 2017 – Present



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Updated January 2021

