

Samuel Burnett

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Objective: Electrical engineering student with military signals intelligence and civilian avionics background seeking hardware design focused internship for the summer of 2020

Clearance: Top Secret, SCI (2011-2016)
Secret (2011 – Present)

Education: Electrical Engineering B.S. - Iowa State University, Ames, IA
GPA: 3.50 (Graduating Dec 2020)

Languages: English (native), Korean (fluent)

Professional Experience:

Systems Engineer Intern, Ground Mobile Radio Systems - Collins Aerospace

May 2019 – August 2019

- Provided software-defined radio development support pursuant to customer requirements
- Validated improvements to platform architecture in support of product lifecycle sustainment
- Verified hardware design changes, waveform updates, user instructions, and unit performance
- Supported production through technical expertise, hands-on failure analysis and isolation

Manufacturing Electrical Engineer Co-op, Flight Controls - Collins Aerospace

May 2018 – December 2018

- Improved control panel product yield 15% by locating and fixing environmental test software bug
- Provided technical operational support to a team of 30+ engineers, technicians & support staff
- Collaborated across multiple disciplines in support of product and process improvements
- Organized and assisted troubleshooting efforts on products, test station equipment and software
- Coordinated with production management to assess risk and allocate resources

Student Engineering Technician - Iowa State University, Electronics Technology Group

December 2016 – Present

- Printed circuit board design, improvement, population and repair, (7 original design layouts)
- Component selection and application expertise for student projects and research
- Laboratory equipment implementation, troubleshooting, calibration, and repair
- Project design consultation, prototyping and fabrication assistance

Cryptologic Linguist / Signals Intelligence Analyst - United States Army

November 2011 – April 2016

- Developed target trends and provided time-sensitive predictive analysis
- Performed daily mission briefings to high level command staff
- Presented weekly and monthly target analysis reports
- Analyzed data in support of asset management
- Published 300+ intelligence reports

Professional Skills:

- Altium Designer, Autodesk Eagle, Python, C, Linux, SPICE, Office
- Electronic systems design / circuit schematic / physical layout
- Systems failure root-cause analysis and troubleshooting
- Test equipment implementation, data analysis, debugging
- Team organization, task delegation, after-action review