

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY
Bachelor of Science, Mechanical Engineering

Atlanta, Georgia
May 2016

WORK EXPERIENCE

Heatcraft Worldwide Refrigeration

Stone Mountain, Georgia

Mechanical Engineer III

April 2021-present

Mechanical Engineer II

April 2018-April 2021

Mechanical Engineer I

May 2016-April 2018

- Developed and enhanced process improvement software tools:
 - Programmed scripting tools for mass data retrieval from SAP, a material and business transaction tool
 - Created excel macros to optimize lab scheduling and lab data retrieval, manipulation, and interpretation
 - Reduced test time by 50% for run-test software used by contract manufacturers to validate operation of various control products
- Lead engineer on project to redesign flagship product line to meet energy efficiency and minimum global warming potential targets:
 - \$200+ million annual revenue product line
 - Developed and executed project requirements, design budget, and project schedule
- Lead engineer and main contact for existing control products:
 - Developed internal support documentation and troubleshooting methods for electro-mechanical controls
 - Self-taught to assist end-users with communication and functional protocols including Modbus (RS485), BACnet, remote access (TCP/IP), and a proprietary ASCII RS232 protocol
- Member of team tasked with design and development of new refrigeration system control platform:
 - Embedded electronic control platform with serial and web interfaces
 - Developed and implemented test plans to validate control performance
 - Provided design support and feedback to hardware and software teams throughout development
 - Owned and maintained engineering specifications used as reference by the project team
- Performed troubleshooting and analysis for reported field issues and customer requests:
 - Investigated issues that included various electrical and mechanical component failures
 - Developed and executed lab testing for investigation, data collection, and analysis
 - Provided system performance analysis and recommendations for improvement
- Worked directly with potential customers to develop custom equipment to satisfy specific design requirements
 - Project resulted in additional \$1M+ in annual sales with potential for additional growth

Mechanical Engineering Co-op

August 2013-May 2015

- Worked with engineering team on various semester long projects:
 - Enhanced engineering and sales tools (e.g. RefCoil, Flex-Pack generator tool, ASBUILT)
 - Engineered product line extension to incorporate newly available compressor models

LEADERSHIP AND VOLUNTEER EXPERIENCE

- Training coordinator for Heatcraft's new product development engineering team
- Manager of Heatcraft engineering co-op program: recruited, trained, and mentored co-op students
- Regularly presented to students from local schools that are interested in careers in STEM
- Planned and led various outdoors high-adventure trips for Georgia Tech students across the United States (Alaska, Minnesota, Montana, and many locations in the southeastern United States)
- Eagle Scout Award - Boy Scouts of America (2011)

SKILLS AND PROFICIENCIES

- Web Development: React.js, Javascript, HTML, CSS, git, [GitHub](#)
- Engineering: AutoCAD, MATLAB, LabVIEW, Command Prompt, BASH, Visual Basic, and Excel Macros
- Thermo-dynamic system and fluid design, refrigeration system design optimization
- Project management: budget, timelines, cross-functional collaboration and planning