

Gary Jones

Experienced engineer passionate about developing human-readable, maintainable code and quality user experiences

Experience

Lead New Product Development Engineer, **Heatcraft RPD** March 2024 - present
NPD Engineer III April 2021 - March 2024
NPD Engineer II April 2018 - April 2021
NPD Engineer I May 2016 - April 2018

- **Lead engineer responsible for redesigning flagship product line to meet energy efficiency and minimum global warming potential targets:**
 - Managed design updates for \$200+ million annual revenue product line
 - Developed and executed project requirements, design, budget, and schedule
- **Developed and enhanced internal 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 over 50% for run-test software used by contract manufacturers to validate operation of various control products
- **Managed development and improvement of electronic control products:**
 - Developed internal support documentation and troubleshooting methods for electro-mechanical and embedded controls
 - Trained and assisted end-users with communication and functional protocols including Modbus (RS485), BACnet, remote access (TCP/IP), and a proprietary ASCII RS232 protocol
- **Tasked with design, development, and introduction of new, state of the art refrigeration system control platform:**
 - Embedded electronic control platform with HMI, 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 to identify bugs and enhancement opportunities
 - Owned and maintained engineering specifications used as requirement 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**
 - Identified project requirements based on customer specifications and typical history of application challenges
 - Project resulted in additional \$1M+ in annual sales with potential for additional growth

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Skills

Programming Languages

JavaScript, TypeScript, HTML, CSS, Nunjucks

Libraries & Frameworks

React, Material UI

Tools & Platforms

git, GitHub, Netlify

General

Project management, multidisciplinary project team collaboration and leadership, troubleshooting

Projects

Spotify Front-End Clone

A front-end clone of the Spotify Web App that supports key browse features via the Spotify API

Cross-Stitch Builder

A web app that allows conversion of uploaded images to cross-stitch patterns through various filters, dithering algorithms, and convolution

MagicMirror² Weather Alert Module

A custom module for the MagicMirror² open source smart mirror platform that allows users to visualize real-time weather alerts/emergencies

Education

Georgia Institute of Technology

Bachelor of Science in Mechanical Engineering

Interests

3D printing, wood-working, electronic hardware design, snowboarding, chess