CHLOE HANKS

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LinkedIn: linkedin.com/in/chloehanks/ | GitHub: github.com/chloeeh | Portfolio:
chloeeh.github.io/hanks-react-portfolio/

Summary

Full Stack Web Developer with a background in Electrical Design and Test enraptured by the challenge of learning. Unafraid to go after the unconventional in an effective manner. Known for working well across projects as both a leader and a learner, ease of adaptability to new roles/projects, and drive towards clear solutions. Documentation-obsessed, and detail-oriented while still keeping the big picture in mind.

Technical Skills

Technical Languages: JavaScript, NodeJS/Express, HTML, CSS, Tailwind, MySQL, NoSQL, git, jQuery, Mongoose
Applications: Mobile-first/responsive design, RESTful API integration, MERN application development
Interpersonal: Excellent project management aptitude, distinguished documentation and presentation ability, passionate about mentorship

Projects

Bexar Market | Repo: github.com/jessicashong/bexar-market | App: bexar-market.herokuapp.com/
- Responsive, scalable SPA (MERN stack) to encourage patronage at local businesses in Bexar County, San Antonio, TX
- Project Manager, Front End, user-interactive component design and integration
- Javascript, Tailwind, CSS

You Goal Girl! | Repo: github.com/chloeeh/you-goal-girl | App: clj-yougoalgirl.herokuapp.com/
- Responsive 90s-themed goal-tracker utilizes Sequelize ORM database and MVC paradigm to create a RESTful API
- Project Manager, Idea Driver, Front End developer
- JavaScript, Handlebars.js, MySQL, Express/NodeJS, Insomnia, Heroku

Guild Wars 2 Gold Converter | Repo: github.com/mdinkelbach/gw2-gold-conversion | App: mdinkelbach.github.io/gw2-gold-conversion/
- Responsive webpage that integrates a currency conversion API and Guild Wars 2 API that allows users to enter Guild Wars 2 code to convert game currency into real-world currencies
- API integration, user-interactive component design with dynamic HTML, documentation
- JavaScript, HTML, CSS, jQuery

EXPERIENCE

Southwest Research Institute of Technology (SwRI) – San Antonio, TX   Jun 2021 – Nov 2022
Senior Research Engineer | Space Science and Instrumentation
- Troubleshooted Printed Circuit Boards (PCBs) to minimize crosstalk on low-level signals; tune delay lines to fractions of a nanosecond; mitigated anomalies observed in testing
- Troubleshooted and updated High Voltage Power Supply board to create bipolar voltages up to +/-6.5kV
- Wrote and performed test documentation from board- to system-level designs

Jacobs Technology (NASA) – Houston, TX   Apr 2018 – Jun 2021
Lead Electrical Design Engineer | Portable Life Support System (PLSS)
- Technical lead who mentored 5+ electrical engineers to support a team of 50+ multidisciplinary engineers developing test rigs to measure the performance of next generation spacesuit components
- Created electrical system architectures for complex electro-mechanical test rig systems
- Wrote and performed extensive functional checkout procedures to prove system operation
- Designed and tested custom modular hardware solutions and niche applications through PCB design
- Allocated electrical resources to fold into team's schedule and budget analysis

Electronics Design Engineer | Power Management
- Designed low power system to gauge capacity of Li-Ion batteries in an emergency flight system
- Developed system-wide power budget calculator based on flight data and user input to size Li-Ion batteries

- Created detailed documentation to explore nuanced design and component selection decisions

Intel Corporation – Hillsboro, OR Aug 2017 – Mar 2018
Analog Engineer | Power Delivery
- Designed and managed effective voltage regulation (VR) solutions for FPGA systems
- Recommended effective VR layout and via feedback to validation engineers to ensure workable outcomes
- Found design flaws and mitigated potential failures through investigation and analysis

National Instruments – Austin, Texas May 2016 – Aug 2016
Analog Hardware Intern | Data Acquisition and Control
- Defined and designed analog front-end power output stage with PWM drive and current sensing/control
- Developed custom schematic and PCB layouts for prototype board development
- Derived power and accuracy considerations to ensure analog front-end remained within specification

EDUCATION

UTSA FullStack Web Developer Boot Camp Certification Apr 2023
University of Texas - San Antonio (Grade: A)

Bachelor of Science in Electrical Engineering (Mathematics minor) Apr 2017
- Tau Beta Pi Scholar

Bachelor of Art in Russian Apr 2017
- ACTFL Advanced-High/Superior Russian

Brigham Young University, Provo, UT (GPA: 3.89)