Jessica Jinosko

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https://github.com/jj-jinosko/ | https://jj-jinosko.github.io/dashboard/

Software Engineer with over 4 years of experience in medical device product development, specializing in medical device software (IEC 62304). Currently transitioning from a product development and quality engineering role to a dedicated developer position.

SKILLS

Programming Languages: Python | JavaScript | HTML5 | CSS | C++ | MATLAB | LabVIEW | SQL
Software: MS Office Suite | Sketchup | SolidWorks | COMSOL | ImageJ | VectorCast | DOORs | Jira | Telelogic
QMS & Design Control Process: 21 CFR Part 820 | ISO 13485 | DHF | 510k | CAPA | ISO 14971 | IEC 62304 | IEC 60601-1

WORK EXPERIENCE

Terumo Cardiovascular Group, Ann Arbor, MI
Software Engineer II 10/2020 - 10/2022

- Spearheaded resolution of critical flaws in the new blood parameter monitoring system's UI/UX design, saving weeks in product development time and **earning recognition from the VP of Product Development.**
- Verified over 400 new and updated requirements by authoring system and integration level software verification tests.
- Enhanced requirement update efficiency by 30% by developing Excel VBA tools to replicate DOORS database functionality.
- Prevented FDA 510k submission failure by identifying non-compliant alarm/alerts design per IEC 60601-1-8.
- Leveraged Scrum Agile methodology to achieve continuous integration (CI/CD), driving over 60 software releases.

Terumo Cardiovascular Group, Ann Arbor, MI
Software Engineer I 10/2018 - 10/2020

- Identified the source code of over 20 development and post-production software driven errors, by serving as the primary resource for conducting urgent issue identification and root cause analysis**.**
- Led technical reviews with cross-functional team: usability, clinical, hardware, marketing, and software quality assurance.
- Developed and documented software requirements specifications, software architecture design, software detailed design, and communication protocols.
- Authored and executed software verification for heart lung machine: code reviews, unit tests, and integration tests.

Engineered Cellular Microenvironments Lab, Ann Arbor, MI
Biomedical Research Assistant 06/2015 - 06/2016

- Redesigned an experiment quantifying the role of mechanical stress in leukemia proliferation, salvaging $5000 in materials.
- **Engineered and implemented an image processing program** using MATLAB and ImageJ to expedite statistical analysis, reducing digitization time by 80%.

Innovision Systems, Columbiaville, MI
Junior Software Engineer 06/2013 - 06/2014

- **Resolved errors in motion capture software's center of mass algorithm (C/C++)**, effectively recovering the functionality.

PROJECTS

Personal Project Dashboard (https://jj-jinosko.github.io/dashboard/) JavaScript | HTML5 | CSS

- Created a responsive website with vanilla JavaScript to showcase github projects.

Chancify Web Application using Spotify API JavaScript | HTML5 | CSS | Spotify API

- Developed a web application using the Spotify API (RESTful API), creating a new way to rediscover your favorite music by generating playlists from your liked songs, sorted by attributes like energy and danceability.

Geocoding University Locations JavaScript | HTML5 | CSS | API | SQL | SQLite | Python

- Converted university names to geographical locations and implemented data visualization using the OpenStreetMap API.

EDUCATION

University of Michigan, Ann Arbor, MI
Bachelor of Science in Biomedical Engineering (BSE)
Dean's List | University of Michigan Jazz Club | Society of Women Engineers | iGEM Michigan Synthetic Biology Software Team