Jacob Nash

Software Engineer

Experience

Software Design Assurance Quality Engineer III

LivaNova Sep 2020 – Present
Implementing software procedures and FDA guidelines to provide for next-generation world-class Vagus Nerve Stimulation Clinician Programmers. Finding software deficiencies in code reviews, documentation, and procedures allows teams to deliver better software that supports customer needs.

Senior Software Design Engineer

Stryker - Jan 2020 – Sep 2020
The lead of a multinational Software team developing a next-generation High-Frequency generator for electrocautery. Owning Requirements, Risk, and Design per 62308. Ensuring the timeline and safety of the product while balancing critical stakeholders in both acquisition and company.

Software Design Engineer

Stryker - Feb 2018 – Sep 2020 (2 yrs 8 mos)
Embedded software engineer, focusing on Microchip PIC18 embedded applications, to the embedded Linux application space working on a medical-grade waste management system, That is known to be safe for patients and clinicians, the product I worked on has won multiple recognitions from the AORN.

Automation Engineer

Intel - Jun 2016 – Jan 2018
I worked with teams to optimize the production line, spending most of my time automating key performance indicators to reduce engineering workload and investigation time, focusing on production line timeliness and production tooling cost associations to describe factory product cost more accurately. Some key wins were reducing Engineering work time from 168 weekly hours to two, saving upwards of 250K/yr.

Yield Systems Engineer (Intern)

Intel - Mar 2015 – Dec 2015
Used a full-stack approach to developing factory comment tacking systems that allowed the Factory to search for wafer comments quickly centrally. Using SQL, PHP, and Javascript to create an easy-to-use application saves approximately an hour per investigation with around 100 investigations a week.

Support Tech II - Extended Learning IT Services

The University of New Mexico

Aug 2014 – Mar 2015
Level 2 support technician on the virtual learning platform of the university. I diagnosed user errors and performed root cause analysis of system deficiencies. Leading courses for instructors and students in how to best use the platform.

User Support Consultant 3

The University of New Mexico
May 2013 – Aug 2014

Led team of Level 1 help-desk technicians to define problems they were encountering and interacting with Level 2 and 3 technicians to come up with essential to intermediate troubleshooting and resolution processes to minimizing ticket escalation and resolution.

Education
University of New Mexico School of Engineering
Engineering degree, Computer Engineering
2010 – 2016

Awards
2015 Runner-up UNM Mobile Application Development Competition
Created a server side XML parser that used open data to an online course catalog that could be viewed outside of logging into university account (a first for the university). After receiving the award we integrated the product into university servers that was used for three years to serve up courses to university students, and community under the name Loboplan.

Skills

C/C++ embedded applications

System Architecture

Medical Device Software

Embedded Engineering

Risk Management

IEC 62304 and TIR 45

Revision control

Software Quality Assurance

Software Testing

Embedded System Analysis

Database Design

Clean Code

Project Management

Git