

Trina Vana

trinavana@gmail.com | www.trinavana.com

WORK EXPERIENCE

Engineering Program Manager July 2021 - Present
ReCor Medical | Palo Alto, CA

- Continuous risk, scope, resource, and priority management of early R&D programs as well as communication of these items to senior management and project team members
- Facilitating technical and strategic alignment amongst stakeholders

Senior R&D Engineer II July 2020 - June 2021
Senior R&D Engineer July 2019 - July 2020
R&D Engineer February 2018 - July 2019

Alcon (formerly PowerVision, acquired March 2019) | Belmont, CA

- Collaborated with KOLs to establish novel clinical workflows; managed scope, timeline, and deliverables for associated usability studies to support clinical trial submissions
- Grew throughput of an early concept device by 150% by building out a pilot line; this included managing budget & facilities, materials & equipment procurement, and process development
- Directed an agile product testing team of 5 engineers across 2 sites
- Promoted data-driven design decisions with DoEs, root cause analysis, FEA simulations, and automated analysis in Python
- Developed metrology software in LabVIEW and architected database workflow using SQL and Microsoft Access. Facilitated subsequent deployment for production use

Mechanical Design Engineer June 2017 - January 2018
Mechanical & Manufacturing Engineer September 2016 - June 2017

Zap Surgical Systems | San Carlos, CA

- Managed systems integration between electrical, mechanical, and industrial design; defined final product assembly and distribution plans with international CMs
- Produced Solidworks CAD drawings employing GD&T and tolerance analysis on assemblies with complex, 500+ dimension parts
- Led design and verification of 3 degree-of-freedom patient table system with Solidworks Simulation
- Facilitated technology transfer: established Solidworks PDM workflow, released work instructions, and managed partnerships with local and international vendors in China
- Drove 510K readiness effort by maintaining and updating a 3300+ part BOM, developing and implementing test protocols, and drafting design verification reports

Engineering Intern May 2015 - August 2015

Radical R&D | Portland, OR

- Established safety parameters for spinal surgery devices in accordance to IEC 60601 standards
- Defined client specifications and produced early concept prototypes for unique textile-based and flexible sensor technologies

Customer Success Representative April 2013 - May 2014

Box | Los Altos, CA

- Resolved 80+ weekly technical issues and informed future product development by leading root-cause analyses across engineering, product management, and design teams
- Trained and mentored new team members

EDUCATION

UCLA, *Master of Science* June 2016
Mechanical Engineering, emphasis in Design, Manufacturing, and Robotics

UC Berkeley, *Bachelor of Arts* December 2012
Molecular & Cellular Biology, concentration in Neurobiology

KEY SKILLS

Solidworks, ProE/Creo, COMSOL, Abaqus, MATLAB, LabVIEW, Python, Microsoft Office suite, Adobe Creative Suite, HTML/CSS, product development, project management, Agile, mechanical design, rapid prototyping, DFx, process development, test method development, data analysis, SQL