

TRINA VANA

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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 and their associated projects
- Facilitating technical and strategic alignment across the organization

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

- Defined a novel clinical outpatient procedure; managed scope, timeline, and deliverables for associated usability studies with ophthalmologists 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 early product testing with 5 engineers across 2 sites
- Promoted data-driven design decisions leveraging DoEs, root cause analysis, FEA simulations, data collection via SQL database design and automated analysis in Python

Mechanical Design Engineer | June 2017 - January 2018

Mechanical & Manufacturing Engineer | September 2016 - July 2017

Zap Surgical Systems | San Carlos, CA

- Managed systems integration between electrical, mechanical, and industrial design; defined and oversaw final product assembly (generating BOMs, work instructions) with international CM
- Produced Solidworks CAD drawings employing GD&T and tolerance analysis on assemblies of 500+ dimension parts
- Led design and verification of 3 degree-of-freedom patient table: wrote protocols, executed FEA and bench testing, and drafted final reports

Engineering Intern | May 2015 - August 2015

Radical R&D | Portland, OR

- Defined client specifications and produced early concept prototypes for textile-based, flexible sensor technologies and spinal surgery devices

Customer Success Representative | April 2013 - May 2014

Box | Los Altos, CA

- Resolved 80+ weekly technical issues and informed future product development with engineering, product management, and design teams
- Trained and mentored new team members

EDUCATION

University of California, Los Angeles
M.S. Mechanical Engineering
June 2016

University of California, Berkeley
B.S. Neurobiology
December 2012

CERTIFICATES/LICENCES

Cornell University
Engineering Leadership Certificate
May 2022

SKILLS

- Project management: Agile, Kanban
- Product development: Solidworks, ProE/Creo, COMSOL, Abaqus
- Technical leadership
- Vendor management
- Process development
- Data management and analysis: Python, MATLAB, SQL