

# TRINA VANA

San Francisco Bay Area, CA | +1 949 241 6177  
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 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** | July 2019 - July 2020

**Mechanical & Manufacturing Engineer** | February 2018 - July 2019

**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