

Trina Vana

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| WORK EXPERIENCE | <i>R&D Engineer</i> PowerVision, Inc., Belmont, CA | February 2018 - Present |
| | <ul style="list-style-type: none">• Developing production and R&D optical metrology software in LabVIEW to collect and analyze data with Access databases and Python• Designing and validating molded parts and associated tooling for small, intricate components in Solidworks• Next generation product development employing work in tissue models as well as FEA (Abaqus) on compliant, fluid driven parts | |
| | <i>Mechanical Design Engineer</i> <i>Mechanical & Manufacturing Engineer</i> Zap Surgical Systems, Inc., San Carlos, CA | June 2017 - January 2018 September 2016 - June 2017 |
| | <ul style="list-style-type: none">• Managed systems-level projects between electrical, mechanical, and design teams• Created tooling and fixtures to streamline manufacturing and ensure quality of essential components for Zap-X, a robotic radiosurgical system• Produced Solidworks CAD models and drawings employing GD&T and tolerance analysis on assemblies with complex, 500+ dimension parts• Led design verification of patient table system with Solidworks Simulation• Transitioned R&D efforts to production by managing a document control process with Solidworks EPDM, producing work instructions, and establishing 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 | |
| | <i>Engineering Intern</i> Radical R&D, Portland, OR | May 2015 - August 2015 |
| | <ul style="list-style-type: none">• Established key safety parameters for spinal surgery tools and posture sensors• Sketched and prototyped early product concepts to satisfy defined client specifications• Determined skin adhesive solution for a sensor device by identifying 5 viable products, drafting formal test protocols, and carrying out initial testing• Interfaced with clients on a weekly basis throughout the project duration | |
| | <i>Customer Success Representative</i> Box, Los Altos, CA | April 2013 - May 2014 |
| | <ul style="list-style-type: none">• Resolved an average of 80+ weekly technical product issues through effective communication with key clients over email, phone, and screen share• Collaborated with internal teams in engineering, product management, and design to address broader product issues and influence future development• Trained new hires as a member of a select on-boarding leadership team | |
| EDUCATION | UCLA, <i>Master of Science</i> Mechanical Engineering, emphasis in Design, Manufacturing, and Robotics | June 2016 |
| | UC Berkeley, <i>Bachelor of Arts</i> Molecular & Cellular Biology, concentration in Neurobiology | December 2012 |
| TECHNICAL SKILLS | Solidworks, ProE/Creo, COMSOL, Abaqus, MATLAB, LabVIEW, Python, Microsoft Office suite, LaTeX, Adobe Creative Suite, Arduino, HTML/CSS, mechanical design, technical writing, data analysis, rapid prototyping, laser cutting, soldering, basic hand tools | |