

- Created SolidWorks parts, assemblies and drawings for a test simulator (LINAC) – 19 inch rack chassis system
- Created SolidWorks models for vacuum plastic and injected plastic parts
- Sourced components and gathered documents to meet FDA criteria
- Entered information into engineering change management system for component release

October 2011 – March 2012 Novatorque, Sunnyvale, CA Mechanical Engineer
(Contractor) (project completed)

- Created assembly instructions for magnetic electric motor
- Designed test fixtures for magnetic electric motor
- Designed components for electric motor
- Created assembly drawings for magnetic electric motor
- Sourced components from vendors

June 2011 -October 2011 Wrightspeed, San Jose, CA Mechanical Engineer
(Contractor) (project completed)

- Provided engineering support to mechanical team
- Created drawings of CAD parts and assemblies for hybrid engine and chassis
- Managed Vault (engineering library)
- Trained engineers on best practices for Autodesk Inventor
- Created and managed templates and hardware CAD library

December 2009 – June 2010 Cypress Envirosystems, San Jose, CA Mechanical Engineer (Contractor)

- Developed process control and assembly drawings, using advanced design configurations, for environmental control systems
- Designed models using advanced surfacing techniques for injection plastic molded components
- Managed PDM Vault
- Used SolidWorks as the primary design tool
- Specified and sourced components to be used in manufacturing
- Created engineering documentation for factory equipment

December 2008 – October 2009 Solar Infra, Santa Clara, CA Mechanical Engineer
(Contractor)

- Interfaced with R&D team at Sandia Labs
- Used SolidWorks as the primary design tool;
- Created assembly drawings, bills of materials for solar equipment
- Specified and sourced components to be used in manufacturing
- Created engineering documentation for automation equipment production and maintenance
- Designed and developed rugged solar module

September 2008 – November 2008 Cepheid, Sunnyvale, CA Mechanical Engineer
(Contractor)

- Designed automation equipment for medical devices
- Used SolidWorks as the primary design tool;
- Created assembly drawings, bills of materials for plastic injected parts
- Specified and sourced components to be used on assembly line
- Created engineering documentation for automation equipment production and maintenance

December 2007 -September 2008 SolFocus, Mountain View, CA Mechanical Engineer
(Direct)

- Designed test fixtures and tooling for solar equipment;
- The following test fixtures were designed and implemented: Flash Tester, Solar Simulator, Quick Change Receiver Module, Quick Change Front Glass Module, Quick Change Primary Mirror, Quick Change Secondary Mirror, and Tin Inspection
- The following new product designs were developed: Variable Thickness Backpan, Coffered Backpan, Backpan Seal, and Backpan Supporting Ribs.
- Provided design support for solar equipment, including backpans, trusses, and trackers;
- Acted as CAD Manager for Engineering Department; provided technical support and training for all SolidWorks users;
- Developed and organized design features and templates within SolidWorks to make it easier for users to create and develop designs
- Created product documentation, including drawings, bills of materials, and specifications.

October 2006 – July 2007 General Electric, San Jose, CA Mechanical Engineer (Direct)

- Designed and developed Safety Equipment for nuclear power plants, primarily debris interceptors. These assemblies used 304C SST and standard sheet metal beams and channels. Most of the assemblies required welding. Because these designs were used in nuclear power plants, I was required to apply GD&T to verify that the equipment could be assembled properly in the field and support ANSYS analysis to determine that the equipment would pass seismic safety standards.
- Provided training and support for Inventor users
- Input bills of materials, engineering changes into eMatrix PDMS system
- Wrote design specifications

April 2005-August 2006 SignaSys, Sunnyvale, CA Mechanical Engineer (Direct)

- Designed and created 2D layouts for television station equipment rooms and broadcast stations.
- Designed 19" rack and power systems
- Primary tool was AutoCAD

FACULTY EXPERIENCE

2009-present Laney Community College, Machine Technology Department
SolidWorks and Revit

2005-May 2013 San Francisco State University, College of Extended Learning
Revit and Inventor

2002 Evergreen Valley College
AutoCAD, SolidWorks and GD&T

1999-2001 DeAnza College
AutoCAD, SolidWorks, Inventor, and GD&T

EDUCATION

San Jose State University, San Jose, CA
B.S., Mechanical Engineering

San Jose State University, San Jose, CA
B.A., Public Relations



Autodesk
Certified Instructor