

Tim Sawtell

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- OBJECTIVE** A full-time permanent position as a mechanical engineer with an emphasis on the design and improvement of mechanical systems and processes.
- EDUCATION** M.S. in Mechanical Engineering August 2003
Washington University - St. Louis, Missouri GPA: 3.9 / 4.0
B.S. in Mechanical Engineering December 2001
Washington University - St. Louis, Missouri GPA: 3.2 / 4.0
- SKILLS**
- CAD - SolidEdge
 - Machining - Mill, Lathe, CMM
 - FEA - StressCheck, FEMAP
 - Programming - C, Python
 - Electronic design & fabrication
 - GD&T - ASME Y14.5
- EXPERIENCE**
- Mechanical Engineer July 2012 - Present
Innovative Molding, Inc. - Rohnert Park, California
- Leading cycle time reduction effort. Addressing tooling and process limitations to improve our production process.
 - Developing an automated measurement program to reduce the need for manual inspection. Long term goal is SPC of our injection molding process.
- Product Engineer January 2005 - May 2009
Webview, Inc. - Santa Rosa, California
- Mechanical and optical design of cameras, lighting and mounting fixtures that comprised automated visual inspection systems
 - Completed installations, builds, quotes, technical support & purchasing for inspection equipment
 - Participated in the development of new systems including: specification writing, prototype creation, software & hardware testing
- R&D Technician II September 2004 - January 2005
Spectrum Organic Products - Petaluma, California
- Established new product ingredient, packaging and quality control specifications
 - Responsible for tests and experiments on new and existing products and formulas
- Lab Technician /QA September 2003 - June 2004
Kendall Jackson, Ltd. - Windsor, California
- Provided quality assurance in bottling facility by performing line checks, chemical analysis and microbiological analysis of finished wine
 - Collected samples and performed chemical analysis of wine precursors
- Research & Teaching Assistant December 2001 - August 2003
Washington University - St. Louis, Missouri
- Investigated the affect of equal channel angular extrusions on the microstructure, fatigue crack growth rate and fracture toughness of titanium alloys
 - Design, fabrication, setup and operation of equipment relating to research activities
- Engineering Aid Summer 2000
Department of Defense, Materials Directorate - Dayton, Ohio
- Conducted infrared spectral analysis of single crystal semiconductors
- Manufacturing Engineer May 1999 - December 1999
General Motors Truck Group - Wentzville, Missouri
- Served as the primary manufacturing engineer for a portion of the trim line