

STEFAN M. ELSENER

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MECHANICAL ENGINEER

Deadline driven, hands on engineer able to adapt to the varied needs of a challenging high volume, product design and manufacturing environment. Reputation for collaborating effectively with multi-department team members from diverse backgrounds to develop or improve any product or process. **Demonstrated Strengths Include:**

- Project Management
- Requirements Management
- Process Improvements
- Product Development
- Design for Manufacture
- Client and Vendor Relations
- SolidWorks and Pro/Engineer CAD
- Microsoft Office Products
- PLM/MRP/ERP/PDM Software

PROFESSIONAL EXPERIENCE:

Synchroness Inc., Westminster, CO

Jan 2012 – Present

Mechanical Engineer II

- Customer/vendor interaction to define project scope, requirements, and cost estimation
- Utilize systems engineering methods and processes
- Transfer/update legacy customer CAD documentation
- Design of equipment and products for manufacturing, industrial process, medical material handling, and wearable electro-mechanical industries.
- Design and fabricate prototype hardware for next generation products and new product R&D
- Conduct value engineering efforts to reduce product cost and time to market

- Pro/Engineer and Solidworks CAD software
- Utilize client product lifecycle management software: Aras Innovator, Agile PLM
- Documentation control to ISO 9001:2008 quality management system standards
- ITAR export compliance analysis
- Prototype fabrication and testing lab manager
- Community Outreach Committee Chair

Notion – Loop Labs Inc., Denver, CO

Jan 2014 – Present

Mechanical Engineer – Contractor

- Develop mechanical components in a multi-sensor home awareness system including: battery operated sensor “pods” and a plugin bridge unit to network multiple sensors to the internet.
- Support material selection, vendor support, system testing
- Develop tools and fixtures to aid assembly and calibration activities

Rocky Mountain Orthodontics, Denver, CO

May 2010 – Jan 2012

Manufacturing Engineer

- Conduct manufacturing process efficiency studies including automation feasibility and implementation
- Monitor process and operator performance to identify areas for cost reduction and quality improvement
- Support manufacturing functions and conduct operator training in a high mix, high volume environment
- Manage process changes ensuring interdepartmental communication and execution
- New equipment acquisition, return on investment, and process implementation
- Conduct process validations to ISO 9001:2000 quality management system standards

- Design and development of new products utilizing Pro/Engineer design tools
- Managed work order flow with Microsoft Dynamics AX ERP system
- Participate in internal and external design reviews for client submitted products
- Design for manufacture including: injection molding, CNC machining, composites, and assembly

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EDUCATION & TRAINING:

- Bachelor of Science in Mechanical Engineering, **University of Colorado** Denver
- Engineer in Training, State of Colorado
- Fluent in German and English

May 2010
April 2010

SELECTED PROJECT EXPERIENCE:

Consumer Products:

- Wearable Electro-Mechanical Device Prototype for Consumer Apparel
- Multi-Sensor Home Awareness System

Manufacturing:

- Laser Marking Process Optimization
- Semi-Automated Ink Marking Process
- Automated and Semi-automated Medical Device Assembly and Test Equipment
- Automated Drivetrain Assembly Equipment for Automotive Industry
- Vapor Deposition Process Equipment

Medical:

- Wearable Orthopedic Monitoring Device
- Self-Ligating Orthodontic Bracket
- Pharmaceutical Material Handling Robots

Industrial:

- Pyrolytic Gasification System for Recycling Plastic
- Industrial Laboratory Pump Equipment for Oil & Gas Industry
- Industrial Air Filtration System Value Engineering and Updating

Aerospace:

- Export Compliance Analysis to ITAR guidelines

University:

- Unmanned Patient Retrieval Ground Vehicle
- Rock Sample Collection Robot
- Unmanned Aerial Vehicles with Multi-Payload Capabilities
- Electric Vehicle Conversion – 1967 Triumph Spitfire