STEPHEN EVANS

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Education

UNIVERSITY OF COLORADO, BOULDER | *May 2021*
M.S Mechanical Engineering - 3.9

DE ANZA COLLEGE | *May 2018*
A.S CAD/Drafting & A.S CNC Machining - 3.9

WASHINGTON UNIVERSITY IN ST. LOUIS | *May 2015*
B.S Mechanical Engineering - 3.2

Technical Skills

- SolidWorks, GD&T, FEA, AutoCAD, Creo, MasterCAM, CMM, Technical Writing, Data Analytics
- Machine Shop, 3D Printing, Laser Cutting, Wood Shop, Welding, Soft Goods, Graphic Design
- Feedback Control, Digital Signal Processing, Circuitry, Arduino, Raspberry Pi, Soldering
- MATLAB, Simulink, C#, Python, Git, HTML, CSS, Javascript
- Microsoft Office, Adobe Design Suite

Engineering Experience

DESIGN ENGINEER CO-OP [*Medtronic*] | Boulder, CO | [*8/20 - Present*]
- Developed intuitive mechanical control handle for integration with robotic laparoscopic device
- Actively collaborated and communicated with cross-functional team to meet deliverable deadlines
- Prototyped, tested, and de-risked mechanism functionalities and subsystem integration
- Designed components suitable for mass production as sheet metal, machined, and molded parts

MANUFACTURING ENGINEER [*Elfy's Inc*] | Hayward, CA | [*7/17 - 7/19*]
- Provided expert client-facing DFMA consulting for injection molded and machined part designs
- Augmented throughput and reduced development time with SolidWorks expertise
- Managed numerous projects simultaneously in high-pressure, deadline-driven environment
- Modeled, programmed, and fabricated injection molds based off component models

CO-FOUNDER & DESIGN LEAD [*Doodle Design*] | Los Altos, CA | [*7/15 - 3/16*]
- Successfully crowd-funded proprietary design for a removable earmuff accessory for baseball caps
- Finessed design for manufacturability, reducing production time and material waste by +30%
- Composed and filed provisional utility patent for product's original attachment mechanism

R&D MECHANICAL ENGINEER [*WashU Med School*] | St. Louis, MO | [*Summer 2014*]
- Engineered a novel mesh material for hernia repair surgeries as part of multi-disciplinary team
- Designed and fabricated experimental setups critical to research proof of concept
- Investigated material properties of abdominal tissue in MATLAB based off fluoroscopic images

Activities & Leadership

SOLIDWORKS COURSE TA [*CU Boulder*] | Boulder, CO | [*Fall 2019 - Fall 2020*]
- Created course content for SolidWorks surface modeling techniques & 3D visualization strategies

PROJECT DIRECTOR [*Thurtene Carnival*] | St. Louis, MO | [*11/14 - 4/15*]
- Managed 200+ volunteers in the design and construction of a themed playhouse for charity

EAGLE SCOUT AWARD RECIPIENT [*BSA*] | Los Altos, CA | [*January 2010*]