Travis Libsack

travislibsack.com
travis@travislibsack.com
(207)-891-9133

Engineer interested in unlocking the potential behind processes and effective teamwork. I have spent over two and a half years at high performing manufacturing organizations leading continuous improvement teams which have saved clients over +$14.5m. My engineering background is in Mechanical and Electrical engineering with a strong focus on project work. Going forward, I plan use both skillsets to lead engineering teams.

Experience

Manufacturing Consultant – *Chartwell Consulting* *Boston, MA | 2018 – Present*

Implemented lasting change at five different manufacturing sites by working with process engineers and operators to understand the technical aspects of a manufacturing process, identify constraints, provide insight, and solve challenging problems.

Results Driven
Delivered bottom line results to clients served across the US

- **Increased capacity by >5% in 4 months**, worth $4M annually, at a continuous specialty polymer manufacturer
- **Delivered step change improvement of +9.7%** in efficiency, worth $10M annually, in a production constrained batch polymer process
- **Reduced annual chemical cost by $500k**, energy usage by 146 Mwh, and chemical waste by 121T at a US based textile manufacturer.

Leader & Mentor
Mentor to Chartwell Associates on project and Leader who questions the status quo

- **Mentored** Chartwell Associates and non-Chartwell team members in methodology to deliver results on their own, enabling process improvements delivered by others
- **Pioneered Chartwell's first remote support project** during the COVID-19 shutdown, securing remote work for during the worst parts of the pandemic
- **Collaborated** with plant manager, R&D, and operators to reduce waste in a process that had not been changed since its inception

Engineering Intern – *Atlas Devices* *Boston, MA | Summer 2017*

Completed design of a new user interface on a battery powered vertical rope access device

Engineer
Can work cross-discipline to develop new technology

- **Prototyped and designed** user interface components for a new, low profile, mechanically assisted vertical rope access device
- **Worked across disciplines** – from design to manufacturing to assembly – and was part of the entire process behind making a product

Co-Founder – *Limbeck Engineering LLC* *Freeport, ME | 2014 - Present*

Founded a company in 2014 with a mission of using engineering to solve the world's future problems. Continue to work on projects to this day with my two other co-founders.

Project Focused
Has a vision for projects and works collaboratively with teams to reach a final product

Relevant Projects

Designer, COVID-19 Ventilator, 2020 Final Report Link

- Developed an open-source ventilator for developing countries and emergency uses as **electronics lead & prototyping engineer for a 30-person design team**

Electronics Lead, ClamClock, 2016-17 clamclock.com

- **Successfully funded a Kickstarter project** aimed at teaching kids about electronics, soldering, & programing

Education

Massachusetts Institute of Technology (MIT) *Cambridge, MA | 2014-2018*

Bachelor of Science in Mechanical Engineering, GPA: 4.6/5.0

Thesis: Aquadio: Wearable Product Development

Leadership

- Methodology Trainer, Chartwell Consulting
- Engagement Leader, Chartwell Consulting
- Robotics Class Co-Director, MIT
- Eagle Scout, Boy Scouts of America

Skills

Competent

- Laser cutting, 3D printing, Rapid prototyping
- Benchtop metalworking and woodworking
- Microsoft Office Products (Excel & Access)

Proficient

- Soldering (reflow & SMD), manual/CNC mill & lathe
- Solidworks, OnShape, Fusion360, KiCAD, MasterCAM

Experienced

- Design for manufacturing: injection molding, thermoforming, and silicone molding
- MATLAB, Python, Linux/Unix systems

Projects

Portfolio Link

- COVID-19 ventilator
- Coordinate, SAR Device
- ClamClock, teaching kids about engineering
- Robogoby, underwater submersible

Interests

- Home-lab server
- Weightlifting, training
- Camper Van-Build