

Benjamin Holmgren

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Technical Skills

- CNC and Manual Machining, Metal Fabrication
- Composite layup experience
- 3D printing. Use, Manufacture and Repair
- Automation and Pneumatics
- Plastics Processing: Injection Molding, Extrusion, Vacuum Forming, Compression Molding
- CAD: Catia V5, Catia FEA and Rhino, On-shape, Fusion 360
- Quality Assurance and Data Analysis
- Design of Experiments
- R&D and prototyping consulting

Professional Skills

- Operations and Project Management
- Technical Writing
- MS Office
- Airtable
- Volunteer Coordination
- Education and Teaching
- Curriculum Development
- Community relations

Work Experience

B. Carver Creatives— *Sole Proprietor*

2020- Present

Engineering and design contract and consulting work, specializing in mechanical prototyping, R&D and specialty fabrication. Clients Include *IdeaLab, Frank Cohen of Clever Mo, and Instinct Builders.*

The Bellingham Makerspace

— *Operations Manager*

October 2021- May 2022

— *Assistant Manager*

July 2020- September 2021

— *Teacher*

2016- Present

— *Project Manager*

2015- 2017

Operations Management of 501(c)3 nonprofit community workshop. Managing volunteers; maintenance of tools and equipment; policy and program development; fostering community partnerships and engagement; teaching classes ranging from youth arts to principals of engineering and design to 3D printer building.

WWU PCE Research— *Research Intern*

Summer of 2019

DSC testing and analysis, SEM imaging, XRD measurement and plastics bio-degradation sample prep.

Amped Innovation — *Operations and Testing Team*

November 2018-December 2019

Product testing, electronics testing, soldering and general electronics fabrication.

Education

Western Washington University

Graduation Spring 2020

- ABET Accredited Bachelors of Science and Engineering. Plastics and Composites Engineering Major with Minor in Audio Technology, Music and Society. 3.46 GPA.
- Senior Project with Norplex-Micarta on “Improving bonding and tailoring co-curing behavior for a prepreg – sheet molding compounding system.”
- Alternative Sr. Project implementation improving mask manufacturing for Covid-19.