

# Max Tambling

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## ENGINEERING EXPERIENCE

### Product Development Engineer

AvCarb Material Solutions

01/2017 - 12/2018 Lowell, MA

Specialty Carbon Fiber Manufacturer

- Led product development efforts for products used in the aerospace, automotive, energy storage and friction industries resulting in \$1M of new revenue in 2018.
- Worked with customers to understand products design & application in order to deliver quality first article parts.
- Developed and implemented quality test systems to meet product and customer specifications.
- Managed activities for teams of laborers, tradesmen and engineers for the establishment of new programs.

### Manufacturing Process Engineer

AvCarb Material Solutions

07/2015 - 01/2017 Lowell, MA

Specialty Carbon Fiber Manufacturer

- Identified continuous improvement opportunities to maximize process efficiencies.
- Optimized manufacturing practices to increase mechanical, electrical and thermal properties of products by up to 15-20%.
- Transitioned products from prototyping to production increasing manufacturing rates by up to 10x.
- Developed equipment, machinery & procedures necessary for manufacturing of new product lines.
- Developed, reviewed and approved engineering drawings for capital development project ranging between \$50K to \$250K in value.

### Mechanical Engineer - Intern

AvCarb Material Solutions

01/2014 - 05/2015 Lowell, MA

Specialty Carbon Fiber Manufacturer

- Assisted in the development of carbon-carbon composite materials for flow battery, aerospace, automotive and friction applications.
- Operated a scanning electron microscope to analyze the micro-structures of carbon products.
- Studied and adjusted processes to optimize the mechanical, thermal and electrical properties of carbon product lines.
- Provided support to engineers of varying disciplines in day to day engineering activities.

### Civil Construction Project Manager

Consolidated Divisions Inc.

12/2018 - 05/2019 Sedalia, CO

Environmental Construction Company

- Managed civil construction projects from Pre-Con through to project completion ranging in value from \$500K - \$3M.
- Developed and submitted project schedules projecting project completion and identifying critical project paths .
- Oversaw and managed all personnel, equipment and materials necessary for project completion.
- Read & interpreted construction documents to provide competitive bids for commercial projects ranging in scope.

## EDUCATION

### M.S. Mechanical Engineering

University of Colorado at Denver

01/2017 - Ongoing GPA 3.4 / 4.0

### B.S Mechanical Engineering

University of Massachusetts Lowell

09/2011 - 06/2015

## INDUSTRY EXPERTISE

Lean Manufacturing



Product Development



Quality Control System Development



Microscopy, Micro-structure & Analysis



Continuous Improvement



3D Modeling - Solid Works & FEA



## GRADUATE COURSE WORK

Advanced Fluid Mechanics

Fundamentals of Finite Element Analysis

Processing of Composite Materials

Mechanics of Composite Materials

## ACHIEVEMENTS & COMMUNITY INVOLVEMENT

+ Eagle Scout - Boy Scouts of America

Through 8 years of perseverance, commitment and dedication I obtained the rank of Eagle Scout, an accomplishment only 1% of all registered scouts achieve.