

# IAN COBERLY

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## Skills

### CAD SOFTWARE

Fusion 360  
Solidworks  
Solidworks FEA  
Creo/ProE  
MasterCAM

### PROGRAMMING

VBA  
MATLAB  
HTML  
CSS

## Achievements

### Golf Ball Patents

- 2 Separate patents currently being filed related to golf ball technology

### Acushnet Company Management Training

- First and only engineer selected to participate in Acushnet Company's first management training program.

### Injection Molding Training - UMASS Lowell

- Received injection molding training from UMASS Lowell on part design, mold design, machine setup, and troubleshooting.

## Education

### Colorado School of Mines

B.S. Mechanical Engineering 2018  
GPA: 3.15/4.00  
Treasurer - American Society of Mechanical Engineers  
President - Club Golf

Aug. 2014 to May 2018

## Experience

### *Sr. Assoc. Mechanical Engineer*

Acushnet Company

June 2018 to Current  
New Bedford, MA

- Brought in Additive Manufacturing technology to Acushnet, as well as led Acushnet's 3D Printed PPE initiative for providing PPE to local area hospitals affected by the COVID-19 Pandemic (300 Face Shields and 400 Ear Relief Bands made to date)
- Designed and developed new assemblies and processes for an experimental Urethane casting line with automation and minimal operator interaction
- Utilized VBA to track and visualize quality defects across multiple product lines to investigate defects
- Designed multiple fixtures and assemblies in Solidworks for a wide variety of quality, R&D, and process development initiatives
- Co-Developed a PLC program change to reduce Urethane waste by 30% across all lines
- Developed processes for UR Collaborative Robots to be used in pick and place applications

### *Freelance Mechanical Engineer*

UpWork

Oct. 2019 to Current  
United States

- Top Rated Freelance mechanical engineer in my free time working on a wide range of products for clients from multiple industries
- Projects have included full injection molded assemblies, simple models, and optimizing 3D printed parts
- Most recent projects have been product design for a company that sells consumer baby products: a self sealing diaper pail and a portable breast pump

### *Engineering Intern*

LifeLoc Technologies

Oct. 2017 to May 2018  
Arvada, CO

- Assisted the product development team by doing firmware validation, product testing, and competitor analysis of consumer products (Breathalyzers)

### *Mechatronics Lab Assistant*

Colorado School of Mines

Sept. 2015 to May 2018  
Golden, CO

- Data acquisition and 3D modeling for National Science Foundation Projects
- Utilized Bootstrap, HTML, and CSS to develop the Intelligent Robotics Lab website

### *Research and Development Engineering Intern*

Parsons Xtreme Golf

May 2017 to Aug. 2017  
Scottsdale, AZ

- Utilized Visual Basic, a dual-axis inclinometer, and 3D printed parts to create a device to assist the setup of a Robotic Swing Machine
- Created multiple Excel Macros with VBA to assist quality control, reduced the data analysis time from 3 hours to a matter of minutes

### *Manufacturing Engineering Intern*

Karcher North America

May 2016 to May 2017  
Englewood, CO

- Utilized lean manufacturing techniques such as: 6 Sigma, 5S Visual Management, SMED, and Efficiency audits to assist the Karcher Production System
- Eliminated waste in production areas and storage areas by evaluating the efficiency of the area
- Utilized Creo/ Pro Engineer to model multiple fixtures and carts for production and storage areas

## Relevant Projects

### Personal Portfolio Website Design

- Designing my own personal website from scratch via HTML, CSS, JS
- Website Designed, Mobile responsiveness complete, continuously updating!
- Link: ian-coberly.com

May 2020 to Current

### Golf Putter Design

- Designed multiple putter head shapes in my free time, tweaking old designs and coming up with new ones
- In 2016 I utilized Solidworks and MasterCam to design and CNC my first putter head design, "Apollo"

Oct. 2016 to Current