

George Gombert

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EDUCATION

University At Buffalo SUNY Buffalo, NY
Bachelor of Science in Mechanical Engineering **May 2017**
• Cumulative GPA- 3.1/4.00; Honors: Provost Scholarship

SELECTED ENGINEERING COURSEWORK

Statics	Dynamics	Fluid Mechanics
Computational Analysis	CAD Applications	Manufacturing Processes
Engineering Materials	Heat Transfer	Design Processes

ENGINEERING PROJECTS & FIELD EXPERIENCE

Constructive Display Industries Brooklyn, NY
Lighting Designer and LED Programmer **September 2017 – July 2018**
• Proposed and constructed lighting fixtures for custom built window displays to be shown on 5th Avenue storefronts and satellite shops
• Designed controller systems to operate a digital array of led lights built into displays
• Fabricated and troubleshot both hardware systems and programs to run the LED displays
• Tested, refined, and optimized system for economical design and simplicity of installation

UB Engineering Undergraduate Program Buffalo, NY
Automated Irrigation Systems **September 2016 – May 2017**
• Researched industrial irrigation systems and developed semi and fully autonomous sprinkler designs for the agriculture industry
• Create and test scale models of irrigations systems and sensors to re-create real world situations
• Sensor data mapping used to create a sprinkler algorithm to water large areas or uneven terrain
• Program microcontrollers to interact with sensors and valves to control system

UB Engineering Undergraduate Program Buffalo, NY
Extendable Tie-Down Ratchet Design **January 2016 – May 2016**
• Redesign of of traditional tie-down ratchet to increase leverage while still maintaining compact design
• Geometric dimensioning and tolerancing of new parts to fit existing ratchet components
• Finite element analysis conducted on high stress components added to the design

LEADERSHIP & POSITIONS HELD

Account Manager Backcountry.com	November 2018 – May 2019
Properties Carpenter Constructive Display Industries	September 2017 - July 2018
Hardware and Systems Intern Thimble	January 2017 - May 2017
Marketing Designer Blackstone Launchpad University At Buffalo	September 2015 - May 2017
Trip Leader Outdoor Adventure Club University At Buffalo	September 2015 - May 2017
Scenic Design Apprentice The Cape Playhouse	May 2015 – September 2015

SKILLS

- **Software:** Expert: Microsoft Excel, Word, and PowerPoint, MatLab, Python, Auto CAD, Creo Parametric, KiCAD, Photoshop, Arduino IDE;
Intermediate: Illustrator, Vectorworks, C++, Indesign, Maya, Solidworks, Inventor, Fusion 360
- **Communication:** Technical writing, customer relations, sales, public speaking, presentations
- **Building:** Advanced carpentry, MIG welding, laminates, 3D printing, laser cutting, CNC routing, sewing
- **Miscellaneous:** NY boating license, CPR, wilderness first aid, sailing, climbing, Red Bull athlete