

HUNTER C. BLACK

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WORK EXPERIENCE

GODDARD TECHNOLOGIES – BEVERLY, MA

MECHANICAL DESIGN ENGINEER

SEP 2018 – PRESENT

- Focused on prototyping, refinement, testing, and manufacturing of early-stage products through release
- Designed injection molded parts and assembly fixtures for custom 25-part diagnostic filtration assembly
- Accelerated medical device development for first-in-human trials of novel ECMO application
- Experience with fixture design, plastics selection, FEA, DFM, vendor selection, and part sourcing
- Designed parts for manufacturing using FDM, SLA, sheet metal, machining, and injection molding

JR MECHANICAL DESIGN ENGINEER

SEP 2016 – AUG 2018

- Products developed for industrial, consumer, and medical companies to fast-track product launch
- Designed, prototyped, and manufactured a custom filter for biopharmaceutical application
- Optimized layout of commercial hydrogen gas dispenser for consumer car application
- Advised clients and internal stakeholders on designing, quoting, and building models for 3D printing

DARTMOUTH COLLEGE - HANOVER, NH

SEP 2011 – JUN 2016

MATHEMATICS, PHYSICS, AND ENGINEERING TUTOR AND TEACHING ASSISTANT

- Instructed basic calculus, physics, limits, Taylor series, and multivariable calculus
- Lead 6 class lectures and labs in digital design and VHDL for 30 students
- Aided in studying and problem sets for up to 5 students a term, 10-40 hours/week

SEAKR ENGINEERING- CENTENNIAL, CO

JUN 2014 – AUG 2014

MECHANICAL DESIGN INTERN

- Worked on mechanical systems related to satellite computer processors
 - Assessed thermal data to ensure performance in temperatures ranging from -65 to 120 °C
 - Designed experiments and test apparatus, and performed for quality control and reliability
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EDUCATION

DARTMOUTH COLLEGE, HANOVER, NH

GPA 3.61/4.0

B.A. ENGINEERING SCIENCES MAJOR

JUN 2015

B.E. MECHANICAL ENGINEERING

MAR 2016

- Third Honor Group 2011-2012
- Recipient of Donald '37 and Helen McKinlay Academic Scholarship
- NCAA Academic All American 2011-2012
- 10-20 week group project experience with product design, fabrication and implementation
- Experience with Excel, C, Matlab, Mathematica, SolidWorks, and VHDL
- SolidWorks CSWA (C-6VEX7MQ43Y) and CSWP (C-GEN45XGSHE) certification

PROJECT MANAGER – MOBILE VIRTUAL PLAYER TACKLING DUMMY 2.0

SEP 2015- MAR 2016

- Managed 9 students focusing on Mechanical, Electrical and Controls Engineering oriented tasks
 - Worked to develop the next generation football tackling dummy by limiting person to person contact
 - Improved performance of prototype showcased on the Late Show with Stephen Colbert
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LEADERSHIP AND ACTIVITIES

DARTMOUTH MEN'S ALPINE SKI TEAM, NCAA DIVISION I- CAPTAIN AND VARSITY ATHLETE

2011-2016

- Captain Fall 2014 - Winter 2016, 35 hours/week in season

GODDARD SHOP MANAGER- MACHINING AND RAPID PROTOTYPING

2017-PRESENT

- Oversaw Machine Shop training; operated and maintained four 3D Printers (SLA and FDM)