

CHASE COTTON

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EDUCATION:

UNIVERSITY OF MAINE, Orono, ME

August 2023 - Present (Graduating May 2027)

- B.S. Mechanical Engineering (Dean's List 3 Semesters, GPA: 3.68)

Relevant Coursework: Thermodynamics, Fluid Mechanics, Machine and CAD Design

WORK EXPERIENCE

MECHANICAL ENGINEERING INTERNSHIP

Burt Process Equipment – Hamden, CT

May 2025 - August 2025

- Designed and documented multiple custom-engineered fluid transfer systems
- Created detailed technical packages (BOMs, System Manuals, Customer Packages)
- Researched replacement machinery to improve manufacturing efficiency
- Applied manufacturing knowledge to CAD design, emphasizing DFM

RESEARCH ASSISTANT

Hydrophobic & Surface Technologies Lab (UMaine)

March 2025 - Current

- Operated and calibrated research instrumentation
- Collaborated with graduate researchers to design experimental setups
- Gained experience in testing and validation, and documentation

STUDENT LEADERSHIP INVOLVEMENT

BLACK BEAR ROBOTICS

University Rover Challenge Team

September 2025 - Current

- Designed rocker bogie drive train for planetary rover using SolidWorks
- Cross-functional collaboration across teams to ensure rocker bogie integration

Skunkworks Robotic Mechanical Team

September 2024 - May 2025

- Designed, manufactured, and assembled T-shirt cannon robot with team
- Completed Mill, Lathe, and Bandsaw shop trainings
- Implemented Metal Machining and Assembly Techniques

SKILLS

CAD (Solidworks, Inventor)

Microsoft Suite

Technical Documentation

Lathe, Mill, Bandsaw

Google Suite

DFM

MATLAB

Excel

Data Collection