

BRETT GUSTAVE WOMACK

Babylon, NY 11702 (Willing to Relocate)

CONTACT

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EDUCATION

Boston University

Bachelor of Sciences, Mechanical Engineering

Boston, Massachusetts

Expected May 2027

- GPA: 3.35

University of Oklahoma Honors College

Bachelor of Sciences, Mechanical Engineering

Norman, Oklahoma

Sep 2023 - May 2024

- GPA: 3.75

Relevant Coursework

- Intro to Engineering Design, Physics I, Physics II, Calculus I, II, II and Differential Equations, Electrical Circuits, Probability/Statistic and Data Science for Engineers, Mechanics/Statics, Fluid Mechanics, Energy and Thermodynamics, Mechanics of Materials

Current Coursework

- Dynamics, Aerodynamics, Material Science, Manufacturing Processes

SKILLS

CAD & Modeling: SolidWorks, Rhinoceros 3D, OnShape, SketchUp, 3D Printing (PrusaSlicer, Slic3r, Cura, Bambu Lab)

Programming & Data: Python, C++, Excel, Arduino, TinkerCad

Fabrication & Design: Hand and digital product sketching, Machining/Milling, Soldering, Circuit Design

Visual Design & Artistry: Drawing, Graphic Design (Photoshop, Illustrator), Mixed Media, Concept Development

PROJECTS

Liquid Automated Dispenser

Group

Boston, Massachusetts

Sep 2025 - Dec 2025

- Designed an automated soap dispenser using engineering design process, in charge of wiring, modeling, and coding for group
- Used SolidWorks and Bambu Lab to model and 3d print key components like fixture to seamlessly connect actuator and pump

Temperature Sensor Project,

Individual

Boston, Massachusetts

Jan 2025 - May 2025

- Built a temperature monitoring system using Arduino, LEDs, and actuators
- Modeled precision parts in OnShape and manufactured via machining/3D printing, ensuring seamless assembly

Oklahoma City Zoo Armadillo Enrichment Project

Group

Norman, Oklahoma

Sep 2024 - Dec 2024

- Partnered and met with zookeepers and armadillos directly to design an interactive dig box for armadillos
- Applied CAD modeling, machining, and 3D printing to create a prototype with food puzzles and easy access
- Improved enrichment and engagement for animal, meeting all caretaker requirements

EXPERIENCE

University of Pennsylvania, School of Dental Medicine

Data Analyst

Babylon, New York

Jul 2023 - Present

- Identified EFT-deposit discrepancies, reconciled via payor portals and custom analysis, ensuring 100% posting accuracy
- Streamlined denial management by importing weekly 835 files and processing zero-dollar claims, cutting rework time
- Tracked and resolved clearinghouse denials, increasing claim submission rate and reducing resubmission delays

Boston FitRec

Pro Shop/ Fitness Attendant (2x Employee of the Month)

Boston, Massachusetts

Fall 2024 -Present

- Engaged with 100+ daily patrons by providing guidance on facilities and equipment, improving user satisfaction
- Managed retail and rental transactions while maintaining accurate cash or credit records of 50+ daily transactions

Babylon Village Pool

Lifeguard/ Swimming Instructor

Babylon, New York

May 2021 - Sep 2022

- Enforced safety protocols, provided first aid, and supervised swimmers in high traffic community pool
- Taught beginner-level swimming lessons to children, resulting in improvement in water safety and swimming skills

ACHIEVEMENTS

University of Oklahoma Deans Honor Roll

Fall 2023 - Spring 2024

- Earned with GPA of 3.5 or higher at the University of Oklahoma

Xerox Innovation and Information Technology Award

University of Rochester High School Awards Program (Direct description from University of Rochester)

2022

- Strong interest in innovation and/or information technology and a high level of achievement in area
- Exposure to new technologies outside of school, such as pursuing serious work opportunities in local laboratories or industry
- Leading other students to new approaches to old problems (e.g., business plans for fundraising, innovative community service, after-school activities, and best uses of internal communications tools such as chat and blogs)