PHILLIP CASTRO

Watertown, MA, USA

857-287-8397

Phillipcastro0@Gmail.com

www.LinkedIn.com/in/phillip-castro-2bab0a237

Portfolio: https://ppmmmcc1.github.io/

PROFESSIONAL OVERVIEW

Motivated Mechanical Engineering student at MassBay Community College with hands on experience in CAD (SolidWorks, Blender, FreeCAD), 3D printing, and prototyping. Founder of RSCleaning, a profitable auto detailing business built while balancing full time work and engineering coursework. Proven ability to lead design projects, from a Raspberry Pi based laptop to aircraft valve cover reverse engineering. Passionate about sustainable innovation, automation, and solving real world problems through engineering.

EDUCATION

MassBay Community College – Wellesley Hills, MA (Jan 2024 – May 2027)
A.S. in Mechanical Engineering

Relevant Coursework: Engineering Design, SolidWorks, Physics I,II , Calculus I, II,III

WORK EXPERIENCE

Founder / Auto Detailing Specialist – *RSCleaning, Boston, MA (Jun 2024 – Present)*

- Built and scaled a profitable auto detailing business from scratch while attending college.
- Designed branding, pricing strategy, and marketing materials to attract and retain clients.
- Delivered high quality detailing services with a focus on efficiency, customer satisfaction, and care of a variety of vehicles from high end to fleet vehicles.
- Managed scheduling, client communication, and all operational logistics independently.

Security Guard – *Dassault Systèmes / Securitas, Waltham, MA (May 2024 – Present)*

- Maintain security protocols at a global engineering software firm, conducting patrols across 200+ areas per shift. Focusing on efficiency and attention to detail and successfully bringing down an almost 3 hour tour to under an hour.
- Assist front desk operations, properly handling access badges, and support employee needs.
- Build relationships with engineering staff and FabLab members, sharing ideas and learning firsthand form professionals.
- Use downtime for hands on personal engineering projects (3d filament recycler, Acer monitor wall mount, Raspberry PI laptop, reversed engineered valve cover, filtered fume extractor) and CAD school work.

Server – *Bertucci's, Newton, MA* (SEP 2023 – Dec 2023)

- Delivered attentive and friendly service in a high volume restaurant environment.
- Managed multiple tables simultaneously while ensuring accuracy and speed of orders.
- Handled payments, resolved customer concerns, and maintained dining area cleanliness.

SKILLS

- SolidWorks (3D Modeling & Simulation)
- CAD Drawing & Reverse Engineering
- 3D Printing & Prototyping
- Technical Troubleshooting (Hardware & Software)
- Time Management & Prioritization
- Adaptability & Self Learning
- Creative Problem Solving
- Ability to gather and organize information.
- Ability to work independently with limited instructions / oversight.

ACHIEVEMENTS

Jackson Mann 2019 Science fair Winner
Clean Energy – Off-Grid Phone Charging Solutions – Built and presented two working phone chargers (one solar-powered, one hand-crank) for the Massachusetts State Science & Engineering Fair. Handled everything from wiring to testing. Showed how small-scale renewable energy can make a big impact in places without power.

STEM Expo Presenter – Showcased a fully functional Raspberry Pi laptop with a custom-designed enclosure at MassBay Community College's Spring 2025 STEM Expo.

Dassault Systèmes / Securitas - July 2025 employee of the month