

PHILLIP CASTRO

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<https://rebrand.ly/PC-Portfolio>

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 (in progress)

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

STEM Expo Presenter – Raspberry Pi Laptop Project (Spring 2025)

Pursuing CSWP certification and sustainability-focused engineering projects

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 full-time.
- 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 for high-end 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.
- Assist front desk operations, manage visitor access, and support employee needs.
- Build relationships with engineering staff and FabLab members, sharing ideas and collaborating on project concepts.
- Use downtime for hands-on engineering projects and CAD 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

ACHIEVEMENTS

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.