

ANTHONY PAUL

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EMPLOYMENT

Robotics Engineer

September 2021 - Ongoing

The Procter & Gamble Company - Fabric & Home Care – Cincinnati, OH

Based in the agile innovation group IDEA Labs, a global leader in robotics and manufacturing design in CPG PS.

- Delivered \$30M+ in supply chain savings and productivity gains, driving market growth for billion-dollar brands like Tide, Gain, Downy, and Dawn via breakthrough robotic packing and computer vision solutions.
- Deployed multiple full systems including the automation of ecommerce Tide/Gain packing customization, Dawn end-of-aisle display trays forming and packing, and an entire Tide Pod packing line.
- Executed and owned brainstorming, rapid prototyping, programming, testing, and start-up for multiple robotic solutions in F&HC. Additionally oversaw project failure mode, cause, effect, and analysis.
- Increased free cash flow in the Fabric & Home Care business units by 5.5% by coordinating with Brand, Materials, and Supply Chain teams to optimize solutions for long term branding and packing sustainability.
- Lab specialist in CV and AI/ML robotic applications, robotic end effector, and system design.
- Technologies used: Python (Numpy, Pandas, Scipy, Scikit-learn, Seaborn, openCV, OMPL, PyTorch), RAPID

EDUCATION

Georgia Institute of Technology, College of Computing, Part Time

August 2023 - Ongoing

Masters of Science in Computer Science GPA: 4.0

- Completed Coursework: Machine Learning, AI for Robotics, AI for Games, Network Science

New York University, Tandon School of Engineering

Graduated: May 2021

Bachelor of Science in Mechanical Engineering GPA: 3.24 | Dean's List 202-2021

PROJECTS

Spotify Extended Streaming History Utilities

August 2024 - Ongoing

A Python library designed to extract and analyze extended streaming history data from Spotify

- Wrote a ingestion pipeline to process, clean, and sort streaming data given a variety of metrics: album release, track release, and artist.
- Implemented unsupervised machine learning techniques (kNN and GNN clustering) to aggregate and cluster genre data to metric data.

SDP Electromechanical Lead Engineer

June 2020 – May 2021

Senior Design Project – Brooklyn, NY

- Designed and manufactured a low cost (<\$1k) quadrupedal robot for education and commercial application. Led design efforts for the electromechanical systems and overall power subsystems.

NYU Hyperloop Magnetic Levitation Lead Engineer

September 2019 - May 2021

NYU Hyperloop at NYU Tandon School of Engineering – Brooklyn, NY

- Realized a system that produces safe lift height of 0.02 m at ~300 mph speeds via passive maglev architecture.

Soft Skills: Leadership, Initiative, Creativity, Communication, Collaboration, Adaptability, Problem Solver, Detail-oriented

Hard Skills: Python, RAPID, AutoCAD, SolidWorks, Java, C#, Bash, ANSYS, MS 365, TouchDesigner, Tailwind, SvelteKit, GSAP, Adobe CC

Technologies: Visual Studio, JetBrains IDEs, Jupyter/Python Notebooks, LaTeX