Anthony Bromberg

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EDUCATION

Purdue University | West Lafayette, IN — *August 2020 — December 2024*

- Bachelor of Science in Mechanical Engineering Technology — **GPA: 3.87 / 4.00**

TECHNICAL SKILLS

AutoCAD	GD&T	G-Code	Xcode	OpenRocket	Six Sigma
NX 1946/12	ANSYS SpaceClaim	C & C++	Eclipse	ProtoMAX	Maximo
Inventor Pro	ANSYS Workbench	Java	PuTTY	VERICUT 9.4	SPSS
Fusion 360	FluidSIM	Python	MATLAB	PrusaSlicer	ANSYS GRANTA
Teamcenter 13	Simerics-MP+	HTML	LabVIEW	Ultimaker Cura	Microsoft Software

WORK EXPERIENCE

Paramount Pictures Corporation | *Energy Engineering Intern* | Hollywood, CA — *June 2023 — August 2023*

- Facilitated Data Center air balancing and equipment modifications analysis to model air flow and energy consumption; resulted in 5% annual reductions in power usage whilst achieving N+2 critical infrastructure model
- Streamlined energy and water calculations for annual EBEWE compliance per city ordinance. Established benchmarking data and process by utilizing CMMS (Maximo) for existing equipment specifications
- Standardized configurations and implementation of office building occupancy sensors, improving monitor & control of HVAC systems by 16%, resulting in estimated annual energy and dollar savings of 500 MWh and $125,000 respectively
- Collected and reported daily usage of 30 sound stages to ensure proper operation of lighting and HVAC systems; cumulatively resulting in energy savings of approximately 43,200 kWh, equating to total dollar savings of approximately $10,800
- Developed MEP CAD one-line as-builts and architectural floor plans for asset inventory and instrumentation placement

Sigma7 Design Group | *Mechanical & Electrical Engineering Intern* | New York, NY — *May 2022 — July 2022*

- Aided in the preparation of technical drawings for mechanical and electrical systems of data centers using AutoCAD MEP
- Performed equipment commissioning, decommissioning, and testing on sites requiring innovatory solutions to infrastructure
- Collaborated with engineering and architectural teams to brainstorm new designs and assist with system ideation; Completed site surveys, documented results and deficiencies, prepared observation and deficiency reports, and presented to team members
- Assisted with air handlers, duct distribution, and electrical circuiting design for cooling infrastructure in a critical facility

Habitat for Humanity ReStore | *General Volunteer* | Randolph, NJ — *September 2016 — June 2020*

- Assisted in six home building sites for families in need, performing various tasks including landscaping, framing, flooring, site foundation, insulation, and electrical wiring. Also constructed furniture from donated parts to be resold at inexpensive prices
- Boosted community engagement in club donation events by focusing on marketing efforts — Generated approximately $2500

LEADERSHIP & INVOLVEMENT

Purdue Space Program | *Liquid Propulsion & Student Launch Team Member* | West Lafayette, IN — *August 2023 — Present*

- Engaged in the MFSS subteam while learning analysis, design, and manufacturing principles for liquid rocket propulsion systems

Purdue ASME | *Prosthetics Team Member* | West Lafayette, IN — *January 2023 — May 2023*

- Performed joint subteam ideation, prototyping, and testing efforts using Fusion 360, 3D printing, and standardized components
- Ensured seamless integration of refined joint mechanics into a finalized physical model, while collaborating closely with integrations, electronics, and programming teams to align design considerations across all project phases

Purdue Formula SAE | *Chassis Team Member* | West Lafayette, IN — *August 2022 — May 2023*

- Utilized Siemens NX to design the front bulkhead of our racecar; Imported bulkhead model into ANSYS SpaceClaim to optimize all bodies and to position any external forces, loads, or supports present; Imported bulkhead geometry into ANSYS Workbench to assign remaining properties and to perform FEA — simulated anti-intrusion plate deflects less than 1 inch
- Developed efficient sheet metal toolpaths for water-jetting purposes using ProtoMAX; Aimed for minimum material loss
- Assisted with manufacturing — Constructed jigs for our racecar frame, designed to be adjustable, with roller pins, u-bolts, and square bars; Removed extra coatings on parts to be welded with acetone to address safety concerns; Filed down fabricated pedal box tabs for precise tolerances; Ground tungsten electrodes for tig welding; Observed tig welding process and complexities

INTERESTS

3D Printing | RDREs | Ultramorphix | BMW Z3 M Coupé | Cooking | Swimming | Yin & Yang