# DINELLO CAPALONGO

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## EDUCATION

**The University of Scranton, College of Arts and Sciences** **Scranton, PA**
*Bachelor of Science in Mechanical Engineering (ABET Accredited)* *Expected May 2028*

- GPA: 3.72 / 4.00
- *Relevant Coursework:* Computer Aided Design I/II • Statics • Dynamics • Mechanics of Materials • Computer Science • Calculus I/II/III • Differential Equations • Circuit Analysis • Physics I/II

## HONORS and ACTIVITIES

Dean's Merit Scholarship • Dean's List (All Semesters) • Magis Honors Program in STEM • IEEE – Eta Kappa Nu Honor Society • American Society of Mechanical Engineers Club • Institute of Electrical and Electronics Engineers Club • Commuter Student Association • University of Scranton Italian Society

## PROJECTS

*Automotive Maintenance and Modification – Personal Project* *Fall 2023-present*

- Installed auxiliary LED lightbar, DRL headlights, rock lights, and illuminated emblem
- Fabricated threaded mounting points using tap and die set to secure rock lights to magnetic brackets
- Routed wiring from fuse box through firewall grommet to install dashboard mounted control switches
- Installed radio, backup camera, and dashcam, integrating all with vehicle power and reverse-trigger signals

*3D Printed Scissor Car Jack* *Fall 2025*

- Designed a functional scissor car jack using CAD software
- Fabricated the model using 3D printing techniques
- Conducted load testing to evaluate structural performance and failure points

*Golf Cart Design (SolidWorks)* *Spring 2025*

- Designed a full-scale golf cart assembly using SolidWorks
- Created individual parts and assembled them using proper mates and constraints
- Applied engineering design principles including dimensions, tolerances, and functionality

*Micromouse (Python Programming Project)* *Fall 2024*

- Programmed a robot in Python to navigate and solve a maze using sensor input
- Implemented algorithms for obstacle detection, path correction, and decision making

## WORK EXPERIENCE

**Rossi Rooter** **Scranton, PA**
*General Laborer (Seasonal)* *June 2025 – August 2025*

- Assisted in operating skid steers and mini excavators under supervision, gaining hands-on exposure to hydraulic systems, controls, and load hauling
- Drove trucks with utility and dump trailers, including safe loading, unloading, and material transport
- Performed landscaping, site cleanup, and property maintenance for residential and commercial sites
- Responded to emergency flood and water damage situations, performing basement cleanouts, water removal, and disposal of damaged materials

**Self-Employment** **Scranton, PA**
*Lawn Maintenance* *May 2020 – present*

- Performed landscaping and property maintenance
- Communicated with clients, handled pricing, and managed scheduling
- Assessed lawn conditions and adjusted services based on growth, weather, and property needs
- Demonstrated strong time management and reliability while working independently

## LEADERSHIP EXPERIENCE

**Lackawanna Leadership's Tomorrow's Leaders Today** **Scranton, PA**
*Representative* September *2022 – June 2023*

- Selected for a competitive leadership development program; strengthened leadership, communication, and teamwork skills through monthly sessions and real-world experiences.

## SKILLS and CERTIFICATIONS

*Skills:* AutoCAD • SolidWorks (part modeling, assemblies, drawings, bill of materials) • MATLAB • Maple • Python • Java • LTspice • 3D Printing • Microsoft Word • Microsoft Excel • Microsoft PowerPoint
*Certifications:* Pennsylvania Boating Safety Education Certification (NASBLA)