

Nicholas Duval

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Education

B.S. in Mechanical Engineering | University of Utah

Dec 2024

- Mathematics Minor
- 3.0 Cumulative GPA

Skills

Programming

- Intermediate Arduino & C experience
- MATLAB & Simulink certified
- C++ certified

Mechanical

- SOLIDWORKS certified
- Excel certified

Projects

Past Mechatronics Project:

Designed, built, and programmed a robot to grab blocks based on color or magnetism and place them on a certain table using sensors with wireless communication between a computer and the robot.

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Main Role

- Programmed motors, sensors, and wireless communications
- Packaged and sending data from computer

Auxiliary Role

- Designed CAD model of the robot
- Wiring of components
- Built and manufactured parts
- Constructed the robot

Experience

Private Math Tutor

June 2022 – February 2024

- Advertised services and recruited new students
- Taught elementary level mathematics including basic operations

- Taught Junior high, High school and college level mathematics including algebra, trigonometry, geometry, statistics, and calculus

Burt Brothers Technician

May - September 2022

- Performed oil changes and engine checks
- Performed tire rotations, repairs, and replacement
- Performed other fluid flushes and replacements
- Performed minor electrical repairs

Mathnasium Tutor

May 2021 – June 2022

- Taught numeric fluency and elementary level mathematics
- Taught Junior and High school level mathematics including algebra, geometry, and statistics