

Benjamin Kelemen

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EDUCATION

Bachelor of Science in Electrical Engineering: Computer Engineering, Computer Science, and Applied Mathematics May 2028
Texas State University – San Marcos, Texas
Overall GPA: 4.00

Associate of Arts in Liberal Arts May 2024
Northeast Lakeview College – Universal City, Texas
Overall GPA: 4.00

HONORS AND AWARDS

President's List , Texas State University	2024 – Present
Dean's List , Texas State University	2024 – Present
President's Honor Scholarship , Texas State University	2024 – 2028
Comal County Sportsman Association Scholarship , Comal ISD	2024
National Merit Scholar Commended , Northeast Lakeview College	2023

PROFESSIONAL EXPERIENCE

Paper Grader for Linear Algebra Aug. – Dec. 2025
Texas State University, San Marcos, TX
Graded 4-7 problems from weekly homework assignments in a class of 71 students.
Analyzed and provided accurate feedback on problems with mistakes.

Applications Support Intern June - Aug. 2025
New Braunfels Utilities, New Braunfels, TX
Researched, developed, and implemented an automatic address verification and database cleanup system.
Reworked an existing data transfer system between Cityworks, SQL Server Management Studio, and Request Tracker.

Data Strategy Intern June - Aug. 2024
New Braunfels Utilities, New Braunfels, TX
Worked with large sets of data through SQL Server and created customized reports using Crystal Reports and Cityworks.
Integrated automatic data updates between ArcGIS, Cityworks, and SQL Server.

PROJECT EXPERIENCE

Color Sorter

2025

Designed and implemented wiring for a color sensor and multiple servos to an Arduino.
Programmed color detecting and servo reactions to detected colors.

Omnidirectional Drive Systems

2023 - 2024

Designed, assembled, and implemented omnidirectional drives used on 100-pound robotic vehicles.
Constructed multiple swerve wheel modules, including motors, sensors, gears, and wiring.
Developed programs to monitor and control swerve wheel direction, speed, and rotation.
Fabricated and programmed a mecanum drive system.

Development of Manual and Autonomous Robotic Systems

2020 - 2024

Created complex programs in Java and C++ to provide manual control for robotic systems.
Engineered programs that read and processed sensor information for autonomous robots.
Developed durable and reliable electrical systems for movement and sensors.

SQL Address Verification System

2020 - 2024

Created complex programs in Java and C++ to provide manual control for robotic systems.
Engineered programs that read and processed sensor information for autonomous robots.
Modified systems quickly during competitions for optimal performance.

Ticket Automation System

2020 - 2024

Created complex programs in Java and C++ to provide manual control for robotic systems.
Engineered programs that read and processed sensor information for autonomous robots.
Modified systems quickly during competitions for optimal performance.

TECHNICAL SKILLS

Software: SQL Server, VS Code, Microsoft (Excel, Word, etc.), Crystal Reports, ArcGIS, Cityworks

Proficient in: C++, C, Java, SQL, Python

Experience with: HTML, CSS, C#, Lua, JavaScript

Tools and Instruments: CNCs, 3D printers, grinders, drill presses, saws, wiring tools, multimeter

ACTIVITIES

Member, IEEE Robotics and Automation Society (RAS)

2025 - Present

Weekly meetings to develop complex autonomous mechanical systems as a small team and compete in friendly competitions.

Member, President's Leadership Class

2024 - 2025

Weekly seminars to discover and explore strengths, develop authentic leadership, and learn how to lead with others.