GRAHAM **KROLL**

Dallas, TX · 720-505-0100
grahamjkroll@gmail.com · @GrahamKroll
Resume Website

Objective: Motivated software engineer with a strong interdisciplinary foundation in computer science, mathematics, and mechanical engineering. Passionate about embedded systems, real-time software development, and contributing to mission-critical aerospace and defense technology. Eager to apply programming expertise and problem-solving skills to embedded development, system integration, and software-hardware interfacing.

EXPERIENCE

MAY – AUGUST 2024
INTERNSHIP, HOLT LUNSFORD COMMERCIAL (REAL ESTATE)
Designed an automation data entry system using Visual Basic while working in Industrial, Office, Tenant Representation, and Investments departments and completing a project on the industrial market in DFW.

MAY – JULY 2021
INTERNSHIP, PRECISION WATER RESOURCES ENGINEERING
Executed on excel data projects and participated in weekly summary meetings to enhance my knowledge of water engineering.

EDUCATION

MAY 2025
BACHELOR OF MATHEMATICS/COMPUTER SCIENCE, DALLAS BAPTIST UNIVERSITY
3.98 GPA on 185+ hours and received Presidents List honors all four years.

MAY 2025
MINOR IN MECHANICAL ENGINEERING, DALLAS BAPTIST UNIVERSITY
4.0 GPA on minor specific courses while completing three prototypes.

SKILLS

- Programming in Python, C++, C, Java, HTML, CSS, JavaScript, SQL, and Arduino IDE
- Proficiency in Linear Algebra, Differential Equations, Statistics, and Discrete Math
- Hardware Integration: Device drivers, sensor communication, PWM control, analog/digital signal interfacing
- Development Tools: Git, Arduino libraries, Octave (MATLAB), SolidWorks
- Effective communicator and leader in team-based engineering projects
- 4-year Collegiate Basketball Athlete · Elite 90 Award Winner · Team Captain

PROJECTS

Autonomous Box Mover (Capstone) – Designed and built an Arduino-based mechatronic system capable of autonomous object relocation. Integrated ultrasonic sensors and motors for movement precision, tested under varied temperature/humidity conditions for environmental robustness.
Quadcopter & Land Rover Prototypes – Co-developed UAV and terrestrial rover systems as part of DBU's multidisciplinary engineering team. Involved in mechanical design (SolidWorks), embedded programming (Arduino IDE), and preliminary signal processing for stability control using a SpeedyBee F7 V3 Flight Controller Stack. Demonstrated in real-world testing environments.