

Yigit Kaya

yigitkaya1411@gmail.com | (561) 344-5232 | [linkedin.com/in/yigit-kaya/](https://www.linkedin.com/in/yigit-kaya/)

EDUCATION

Virginia Tech, Blacksburg, VA
Bachelor of Science in Computer Engineering
Minor in Green Engineering

Expected Graduation: December 2024

SKILLS

Programming Languages: Java, JavaScript, Python, C, C++, Matlab, MS SQL, R

Tools & Technologies: Microsoft Excel, HTML, Linux, Git, GitHub/GitLab, Verilog, Arduino IDE, CMake, STM32CubeIDE

WORK EXPERIENCE

Boeing and Virginia Tech, Blacksburg, VA

January 2024 - Present

BLE Mesh Network Developer (Senior Design Project)

- Working towards developing a Bluetooth Low Energy (BLE) mesh network designed to enhance inventory management and operational efficiency in large-scale warehouse environments.
- Providing real-time tracking and communication capabilities with BLE-tagged items, ensuring seamless inventory processes.
- Utilizing C programming to implement and optimize network protocols for the BLE mesh network.
- Aiming to reduce manual workload and improve operational accuracy.

AutoNation Inc, Fort Lauderdale, FL

June 2023 - August 2023

Software Development Intern

- Enhanced the company's Electronic products Content Management (ECM) application by integrating proactive caching in the MS SQL database, achieving a 70% time efficiency increase when accessing sales repositories.
- Developed a Java script to auto-update the items inside the cache table every 5 minutes, anticipating future queries and reducing maintenance needs.
- Collaborated closely with management and sales teams across multiple AutoNation dealerships to identify and strategize software solutions, optimizing the car sales process for maximum efficiency and effectiveness.
- Resolved discrepancies and bugs on the corporate website, including an auto sign-off issue using HTML and JavaScript, enhancing site security by ensuring consistent sign-offs during idle periods.

Wind Turbine Team, Blacksburg, VA

September 2022 - August 2024

Power Systems and Control Team Co-Lead

- Led a team of computer and electrical engineering students in the design and implementation of hardware and software solutions for a wind turbine model, annually competing in the U.S. Department of Energy's CWC.
- Conducted research on software solutions to optimize power output and present findings in weekly meetings.
- Optimized power efficiency by manipulating the STM32 microcontroller used in our wind turbine, employing C programming language to minimize current consumption.

Kaya Ropes, Istanbul, Turkey

June 2022 - August 2022

Software Engineering Intern

- Developed a Python-based receipt scanner app integrating Tesseract OCR to automate extraction of data from physical receipts.
- Collaborated on database integration for seamless data storage and retrieval, handling diverse receipt formats.
- Optimized OCR accuracy, achieving 87% accuracy rate, leading to a major reduction in manual data entry.

ACTIVITIES & INTERESTS

Languages: Turkish (Native), English (Fluent)

Clubs and Activities: Turkish Student Association, NHM Rock Band, Round Square (Study Abroad Program to Japan), Chess Club at Virginia Tech

Leadership: Wind Turbine Team (Co-Lead) Hot Drinkables Club (Vice President), Mindful Motion Yoga Club (Secretary)

Awards: Dean's List (Fall 2022, Spring 2023), Dean's List with Distinction (Spring 2024)