AKASH BINOJ

Current Full Stack Software Engineer at Medtronic. Graduated Honors/STEM Scholar Student at the University of Connecticut with a **double major** between **Computer Science** (concentration in ***Data Analytics***) and **Mechanical Engineering** with a **minor** in **Mathematics**.

Check out my projects at **akashbinoj.com** Born Colorado Springs, CO; Nationality: American

SKILLS

Programming/Tools	Development Tools	Embedded Systems and Robotics
Python, C#, C, Java, JMP, SAS	GIT, Agile Development, Software Design/Requirements	Robotics Hardware/Software, PCAN/CANape, Arduino/Microcontrollers

EXPERIENCE

Medtronic
July 2022 - Current

Software Engineer — Littleton, MA

Working on R&D product software for Next Generation O-Arm product. Developed various software features, including back-end services as well as UI components. *Skills: C#, WPF, WinUI*

Medtronic
July 2021 – Aug 2021

Software Engineering Intern — Littleton, MA

Focused on the O-Arm surgicial product, designing, developing, and testing software for the system. Researched and supported development for a 2D/3D registration model. *Skills: Python*

Tesla
Sept 2020 – Jan 2021

Software Integration Engineering Intern — Palo Alto, CA

Bring-up/Debuged new firmware and hardware integration on Tesla's prototype vehicles. Took ownership and drove progress for a thermal testing rig with full system bring up (writing test scripts + hardware) meeting program critical deadlines. *Skills: Python, C, PCAN, CANape*

Medtronic
June 2020 – Aug 2020

Software Engineering Intern — Littleton, MA

Supported AI algorithm training designing python scripts to parse files in large dataset and create an executable program to allow users to easily convert between different custom file formats (binary files). *Skills: Python*

EDUCATION

Aug 2018 – May 2022 — University of Connecticut — Storrs, CT

- Completed double major in Computer Science (concenetration in Data Analytics) and Mechanical Engineering
- Completed minor in Mathematics
- Graduated with Honors and STEM Scholar Distinguishment

Aug 2014 – June 2018 — William H. Hall High School — West Hartford, CT

- SAT 1500/1600 [800/800 Math (99th Percentile), *700/800* Reading (97th percentile)], Math II Subject *790/800*, 3.94 GPA

HONORS AND AWARDS

(March 2021) Competed in the HackUConn hackathon
Won 1st Place for prototype which reduces energy usage in dorms

(Feb 2021) Competed in TreeHacks hackathon @Stanford University
Prizes won: Best Hardware Hack, Best use of Machine Learning, Best use of Google Cloud

3rd Place AMC Competition 2018	National Honor Society	AP Scholar with Distinction	Recipient of Andrew M Herrman Memorial Scholarship 2018	1st place Science Expo 2016

RESEARCH/PROJECTS

-UConn Laboratory of Intelligent Network and Knowledge-perception Systems (2019-2020) : worked on project involving path optimization using Variable Speed Dubins (MATLAB, C++)

-UConn Senior Design Project: Fully autonomous weather balloon capable of using variable buoyancy in order to nagivate

-More projects and details available on my portfolio website (akashbinoj.com)