

Drew Brandt

xdrewbrandtx@gmail.com

(443) 603-8302

Looking for a software development opportunity to further my critical thinking skills and solve real world problems. Currently pursuing an Information Science degree at UMD. Basic knowledge of C++, C#, and Python, utilized in school projects, and independently developed applications.

EDUCATION

University of Maryland, College Park, MD

BS Information Science, Expected Graduation Dec 2026

Anne Arundel Community College, Arnold, MD

AS Computer Science, Graduated 2023 - 3.22 GPA

North County High School, Glen Burnie, MD

AACPS STEM program, Graduated 2016

RELEVANT EXPERIENCE

Terrapin Rocket Team, UMD — Avionics Engineer

01/2024 - Present

Lead programmer for **Multi-Mission Flight Software (MMFS)**, the team's flight control framework used across all rocket launches. Designed embedded firmware for **Teensy 4.1 and STM32-based flight computers**, with features including high-rate sensor logging, telemetry transmission, and hardware fault detection. Mentored new avionics members, managed code documentation, and coordinated software testing across multiple launch cycles.

EQR, Millersville, MD — Network Administrator

09/2021 - 01/2024 (Part-time)

Developed multiple utilities to improve employee onboarding and offboarding efficiency, as well as a website that consolidated all IT processes into a single view for easier IT personnel training. Performed data analysis and research of company cell phone usage that resulted in cost savings of approximately \$8,000 per month, reducing the monthly bill by half.

Stage & Screen Studios, Millersville, MD — Lighting Designer

06/2021 - 01/2025 (Part-time)

Designed lighting for more than ten productions using the ShowXPress software. Involves researching professional theatrical recordings for inspiration as well as reviewing rehearsals, choreography, music, and video backdrops to create a unique lighting vision for each production.

Fry's Electronics, Palo Alto, CA — Service Technician

04/2019 - 03/2020

Worked with customers to assess damage to their computer and provide advice on repairing/replacing components. Diagnosed and implemented corrective actions for computer problems, to include: identifying faulty or outdated parts, upgrading necessary software, and removing viruses.

EXTRACURRICULARS

Designed a Blender Python add-on, "ShowXPress Visualizer", that allows for enhanced visualization of lighting effects. The add-on allows editing and creating ShowXPress scenes using Blender's powerful keyframe animation tools. This enables incredibly efficient scene prototyping and refinement without needing to be present at the studio.

Developed a prototype C# program that combines the functionality of a lighting control program and a video presentation program.

North County HS Stage Tech Team 2013-2016 - Lighting designer for theatre productions.

Boy Scouts 2011-2014 - Achieved rank of Star scout.