Dylan Speiser

speiser.dylan@gmail.com | (201) 906-3353 | College Park, MD | he/him
in/dylanspeiser | https://dylanspeiser.com

EDUCATION

University of Maryland, College Park, GPA: 3.68 — College Park, MD
Bachelor of Science, Computer Engineering — **Anticipated May 2025**

- Honors College, University Honors
- Dean's List Academic Honors - Spring 2022

SKILLS & HOBBIES

- **Programming**: *Advanced:* Java, C, HTML/CSS, Arduino C++; *Intermediate:* TI-BASIC, SQL, 6502 & MIPS Assembly, Python, UNIX shell; *Beginner:* JavaScript, Verilog
- **Other Software:** *Advanced:* Fusion 360, MATLAB, KiCad, SketchUp, Logisim, Final Cut Pro, Motion, DaVinci Resolve, Microsoft Excel
- **Tools/Machinery:** Soldering stations, oscilloscopes, multimeters, saws, 3D printers, laser cutters, Genie lifts
- Building and programming computers at various levels of abstraction, including schematics and PCBs
- Writing, directing, filming, and editing video with advanced cinematography techniques
- Engaging and entertaining an audience acting, presenting, or public speaking

WORK EXPERIENCE

Singh Sandbox Makerspace — College Park, MD
Volunteer Manager — **August 2022 - Present**

- Maintain the space and equipment, including laser cutters, 3D printers, soldering stations, and saws
- Create educational material about makerspace equipment and policies
- Design and build projects to improve the functionality and atmosphere of the space

Clarice Smith Performing Arts Center — College Park, MD
Production Crew — **September 2021 - Present**

- Load in and strike equipment for productions across seven venues
- Hang, cable, and focus stage lighting equipment
- Operate lighting boards and spotlights during performances

Camp Chipinaw — Swan Lake, NY
Assistant Production Manager — **June - August 2022**
Lighting Technician — **June - August 2021**

- Lead and educated a production crew of 6 technicians and Supervised and entertained supervised a cabin of 9 to 11 children, and taught them how to use the equipment
- Operated lighting, sound, camera, and projection equipment for five theatrical productions plus nightly events, keeping track of and maintaining over 880 individual pieces
- Worked closely with artistic directors and camp administrators to design and plan events

PROJECTS

Custom PCBs for 6502 Computer — **April - September 2022**

- Designed and assembled a 6502 computer on custom printed circuit boards
- Iterated on my designs and designed new versions to address technical shortcomings

Java 6502 Emulator — **February - May 2021**

- Coded an emulator of a 6502 microprocessor in over 1200 lines of Java code
- Published as open-source software on GitHub; has since been forked four times and received five stars

BRAD: Braille Reader and Decoder — **January - May 2021**

- Designed an assisted reading device that understands Braille
- Designed custom algorithms optimized for efficiency and speed, totaling 94 lines of Arduino C++ code
- Awarded 1st place for Social Innovation and the Arts at the 2021 CIJE Innovation Day