Daria Dobrolinski

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PROFESSIONAL SUMMARY

I am a Engineering Physics & Computer Science sophomore at University of Massachusetts Boston with strong fundamentals in mathematics looking to gain experience in the biomedical industry.

EDUCATION

Bachelor of Science, Engineering Physics, Minor in Computer Science, University of Massachusetts Boston 01/2024 — 05/2027

- Relevant Coursework: Calculus 1 & 2, Fundamentals of Physics 1 & 2, Introduction to Electrical and Computer Engineering, Introduction to Computer Science.

Bachelor of Science, Pharmaceutical Sciences, University of Rhode Island 09/2023 — 12/2023

- Relevant Coursework: Biology, Chemistry, Calculus 1.

WORK EXPERIENCE

Research Assistant 02/2025
University of Massachusetts Boston *Boston, MA*

- Develop 3D brain reconstruction methods using spherical harmonics to address the partial volume problem and enhance simulation accuracy in tCS applications.
- Utilize MATLAB and mesh processing tools to create precise surface and volume models for improved geometric detail in MRI-based reconstructions.
- Implement advanced algorithms to adjust sulci and gyri widths, aiming to reduce data loss and support more accurate biomedical research.

PROJECTS

Owner, Photo Sharing Web App (Website – Github) 03/2025

- Collaborated to develop and design a photo sharing web app for favorite selection using HTML and CSS for frontend and Python for backend.
- Consequently, users can download the selected favorites within the web socket session.

Owner, Anorexia Awareness Website (Website – Github) 01/2025 — 03/2025

- Designed and developed a responsive and visually engaging informative website using HTML, CSS, and JavaScript.
- Implemented an interactive navigation bar, dynamic text effects, charts, and flip-card flashcards to enhance user experience and readability.

Lead, Automatic Irrigation System (Slideshow) 03/2024 — 05/2024

- Developed an Arduino-based irrigation system using soil moisture sensors and water pumps, reducing manual watering efforts by over 50%.
- Engineered and 3D-printed a protective enclosure in Fusion 360, protecting electronics from environmental damage and prolonging system lifespan.

SKILLS

Languages	English (Native), Polish (Fluent), Spanish (Advanced)
Programming Languages	Python, CSS, HTML, Javascript, MATLAB
Technologies	AutoCad, TinkerCAD, Microsoft Office, AutoDesk Fusion 360, Arduino IDE, MacOS

AWARDS

- **Seal of Bi-literacy** — Spanish & Polish 05/2023
- **Dean's List** — Fall 2024 Semester 12/2024