

Mustafa Bakir

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PROFESSIONAL SUMMARY

Multimedia designer and computer science enthusiast blending creativity with technology to craft interactive and impactful digital experiences. Passionate about problem-solving, innovation, and design, with proven strengths in business strategy, project management, public speaking, and team leadership. Adept at pitching ideas and presenting concepts with clarity and confidence.

SKILLS

Programming: C++, Python, JavaScript, C#, Bash, HTML, CSS, MATLAB, LaTeX

Design & Creative Tools: Illustrator, Photoshop, After Effects, Adobe XD, Cinema 4D, Vegas Pro, Premiere Pro, Unity

Soft Skills: Project Management, Leadership, Communication, Pitching, Public Speaking

EXPERIENCE

Project Coordinator

Violet Racing – Formula SAE Team

- Led cross-functional coordination of project activities, timelines, and resources
- Secured \$40,000 in sponsorships by strategically pitching to major companies
- Managed documentation, meeting agendas, vendor coordination, and risk mitigation
- Supported budgeting, scheduling, and performance tracking across sub-teams

Arabic Student Assistant

NYU Abu Dhabi Arabic Studies Program

- Assisted in teaching Arabic at all levels through recitations and instructional support
- Led cultural events bridging non-native learners with Arab language and heritage

Admissions Ambassador

NYU Abu Dhabi

- Represented NYUAD to global prospective students through presentations and info sessions
- Enhanced public speaking and interpersonal communication skills in outreach efforts

PROJECTS

Real-Time Audio Visualization System

Python, C++, Arduino, FFT, Audio Signal Processing

Developed a system that maps frequency bands to LED indicators representing musical elements using FFT-based real-time audio processing, Music theory, psychology, and Arduino integration. [Study available]

Drawing with Fourier Transform – Polygon Guesser

p5.js, DFT, Creative Coding

Created an interactive tool that visualizes hand-drawn shapes through epicycles generated by Discrete Fourier Transform to reconstruct drawings in real time.

Library Catalog Management System

C++, Data Structures, OOP

Built a hierarchical book catalog using custom tree and vector structures with borrower tracking, CSV integration, and full book lifecycle operations.

EDUCATION

New York University Abu Dhabi
B.A. in Interactive Media, Class of 2027

Abu Dhabi, UAE

EXTRAS

President, Al-Diwan Arabic Poetry Student Interest