

Zayd Altirkawi

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TECHNICAL SKILLS

Programming Languages: Java, Python, C++, Assembly, GDScript

Software: Visual Studio, Eclipse IDE, Godot Engine, NI Multisim, Quartus Prime, Advanced Design System

Hardware: Raspberry Pi, NI ELVIS II Circuits, PCB Development, FPGA Circuits, Logic Gates, PIC24 Microcontroller

Proficient in Microsoft Word, PowerPoint, and Excel, as well as Google Docs, Slides, and Sheets.

EDUCATION

American University of Sharjah
BS in Computer Engineering

Sharjah, United Arab Emirates
Expected Graduation: 2025

PROJECTS

Cyberpunk Text-Based Role-Playing Game / *Java*

- Collaborated with a group of engineering students to develop a text-based game featuring mobile sensor integration for physical interactivity.
- Developed player and enemy classes, implemented turn-based combat mechanics, and applied design patterns.

Smart Nespresso Machine | *Python (Raspberry Pi)*

- Programmed all RPi functions to control the operations of a Nespresso machine.
- Integrated multiple input, output, and sensor components to the RPi.
- Worked with a small team to design the machine and select the components used.

AC-DC Converter | *NI ELVIS II*

- Designed and soldered a functional AC-DC Printed Circuit Board.
- Cooperated with a fellow engineering student to define the parameters of components used.

2D Platformer Game | *GDScript (Godot)*

- Developed a 2D platformer game as a personal passion project.
- Engineered and tested game mechanics and physics applying proper game design principles.
- Composed background music and designed artwork for in-game sprites.

OTHER SOFTWARE SKILLS

Music Production & Digital Art: FL Studio, GarageBand, Procreate, Aseprite