

# JOE SFEIR

Undergraduate - Electrical & Computer Engineering

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## EDUCATION

**American University of Beirut (AUB)**

*B.E., Electrical & Computer Engineering*

- GPA: 3.47/4.00

**Beirut, Lebanon**

*Aug 2023 – May 2027 (Expected)*

## PROJECTS

**GRAND Decoding Algorithm — RISC-V Assembly**

*Spring 2025*

- Implemented a 5-stage pipelined GRAND soft-decoder in RISC-V assembly.
- Designed a confidence-vector mechanism that reduced clock cycles and improved decoding accuracy versus a baseline implementation.
- Structured, documented code suitable for benchmarking and extension.

## EXPERIENCE

**Electrical Distribution Board Intern**

*Technicat Group*

*Summer 2023 & 2024*

*New Rawda, Lebanon*

- Produced electrical schematics in CADdy and shop drawings in AutoCAD for industrial distribution boards.
- Assembled and wired multiple distribution boards for commercial/industrial clients, ensuring safety and quality standards.
- Prepared cost estimates and project quotations for client bids, based on electrical schematics and component specifications.

## TECHNICAL SKILLS

**Programming** C++, Python, Verilog, RISC-V Assembly  
**Software** AutoCAD, CADdy

## LEADERSHIP & ACTIVITIES

**Semi-Professional Basketball Player**

*Tadamon Zouk, Lebanese Second Division League*

*Summer 2025*

- Competed at a semi-professional level while managing academic commitments; demonstrated discipline, teamwork, and time management.

**IEEE Student Member**

*American University of Beirut*

*Fall 2023 – Present*

- Engaged with the engineering community through technical workshops and speaker events.