

# Johnny Sammour

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## WORK EXPERIENCE

### Synopsys Inc

Lebanon

*Remote R&D Engineering Intern – Custom Compiler Team*

*February 2023 - April 2023*

- Developed complex software projects using C++ for a modern full-custom IC design tool.
- Collaborated with a multinational cross-functional team across several time zones to identify and solve complex software bugs and to ensure alignment with the project requirements.
- Communicated with other departments to gather requirements for internal tool design and development.

### Silicon Cedars

Antelias, Lebanon

*C++ Developer Intern*

*February 2023 - April 2023*

- Developed and optimized software solutions in C++ and Python within a CI/CD Linux environment.
- Built, tested, and maintained internal tools to streamline workflow and enhance the productivity of various departments.

### Samlines – Family Owned Business

Koura, Lebanon

*R&D, IT, Junior Manager*

*June 2016 - January 2023*

- Conducted IT, networking, and managerial tasks, implementing new processes and procedures.
- Programmed a CNC 3-axis router robot, reducing manufacturing time by 70% and cost by 25%.
- Upgraded an open-source CAM software, shortening the transition from design to machining by 30%.
- Developed and maintained a custom MS-Excel based payroll tool, eliminating accounting tasks, reducing processing time by 85%, and minimizing human errors.

### Cadis

Hosrayel, Lebanon

*Engineering Intern*

*June 2021 - August 2021*

- Conducted detailed studies and collaborated with managers to upgrade the control, networking, and management systems, resulting in a 10% improvement in overall efficiency.

## PROJECT EXPERIENCE

### PV System Project Manager

Lebanon

*Freelance*

*July 2022 - August 2022*

- Collaborated with engineers in conducting detailed studies and designed PV systems for 2 factories and 5 homes, leading to a 90% reduction in carbon emissions and electrical costs.
- Negotiated product deals with international suppliers, resulting in a 27% cost savings for the clients, and achieving full ROI within 2 years.

### Senior Graduation Project, Notre Dame University

Louaize, Lebanon

*Smart Greenhouse System*

- Designed and implemented an IoT-based greenhouse connected to Google Firebase using MQTT protocol.
- Developed an Android app to monitor and control the system with built-in resilience against web outages.

*Custom 16bit RISC Microprocessor*

- Designed and simulated a processor using VHDL on ModelSim with a focus on performance optimization.

*Machine-Vision Based Bottle Verification Tool*

- Led a team of 4 students to design and build a machine vision setup that verifies quality control parameters for a high-speed bottle filling line.

## EDUCATION

### Notre Dame University

Louaize, Lebanon

*BE in Computer and Communication Engineering– ABET Accredited– GPA 3.5/4 Graduation Date: June 2022*

- Awards: High Distinction, Dean's Honor List

## SKILLS & INTERESTS

**Skills:** C/C++, OOD/OOP, Qt Framework, Python, Bash, GNU Linux, TCL, chatGPT, SQL, Google Cloud Firebase, VHDL, ModelSim, Cadence Virtuoso, Microcontrollers (Atmel, PIC, Espressif), MS Office.

**Language:** Expert in English and Arabic, conversational proficiency in French.

**Interests:** Machine Learning, Blockchain, Robotics, Renewable Energy.