

SAIF-DINE SAHBANI

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Computer Engineer with experience in **Systems Eng, Product Design, Requirements Eng, and R&D.**

SKILLS

Programming Technologies	Python – Java – C, C++, C# – HTML, CSS, JavaScript – Bootstrap – React – Angular – SQL
Hardware	PostgreSQL – Firebase – Docker – Git – UML – Linux – Unity – Kubernetes – MATLAB
Engineering	HDL (Verilog) – Embedded Real-Time Systems – FPGA – Sequential Circuit Design (Quartus)
Networking	CAD – 3D Printing – PCB Design (KiCAD) – Laser Cutting – Soldering – Welding – Mill – Lathe
Soft Skills	<i>Intro to Cybersecurity</i> (Cisco NetAcad) – <i>Security Engineer Path</i> (TryHackMe) – Wireshark – TCP/IP
Languages	<i>Professional Development</i> (Leadership & Teamwork) – <i>uOGlobal</i> (Critical Thinking & Communication)
	French (Fluent) – English (Fluent) – Arabic (Fluent) – Spanish (Elementary)

WORK EXPERIENCE

Systems Engineering (R&D) | *PocketLab Testing* **Jul 2025 - Present**

- Collaborated in a multidisciplinary engineering team on **research, design, prototyping, testing, and iterations.**
- Overseeing projects end-to-end: planning, **AGILE / SCRUM**, task delegation, **requirements analysis**, (non) functional requirements, actionable OKRs, KPIs, and **cross-team coordination.**
- Building **software architecture** for app development, **training AI (CNN)**, and integrating **API** into the web app.
- Ensured compliance with industry standards (ISO) while aligning engineering outcomes with company business goals.

Teaching Assistant | *Faculty of Engineering, University of Ottawa* **Sep 2024 - Apr 2025**

- Instructed labs for GNG1503 (**Engineering Design**) & GNG2501 (**Product Dev and Management for Engineers**).
- Corrected, graded and provided feedback on student's project deliverables, prototypes, assignments, and quizzes.
- Taught from freshmen to juniors :
 - Project management (**Gantt Chart, MS Project, Trello**)
 - Design thinking, prototyping, testing, iteration
 - Design for X, constraints, compliance
 - Electronics, circuitry, soldering
 - CAD – Computer Aided Design (**onShape**)
 - Circuits & Programming (**Arduino**)
 - Laser Cutting (**Inkscape**)

Front-End Developer | *TLSS, University of Ottawa* **May 2022 - Dec 2022**

- Developed responsive websites and implemented dynamic and interactive web components.
- Debugged cross-device responsiveness for consistent user experiences. Reduced load time of pages by 30%.
- Collaborated on **UI/UX** design and mockups on **Figma**, translating design specifications into code.
- Ensured compliance with web accessibility standards (WCAG).

PROJECTS

Baseball Analysis using AI | *Capstone Project*

- Collaborated in a team of 6 to build an AI-enabled sports analytics platform.
- Combining **motion sensors, computer vision**, and a web interface to deliver **real-time** player performance insights (YOLO object detection, Kalman Filtering, NumPy, Data preprocessing, PCB design).

Arduino Remote Control | *Embedded Systems / Product Design*

- Designed with a team of 5 a remote that controls a lamp light for a disabled client (**agile, prototyping**).
- 3D printed the remote, programmed the **Arduino** in **C++**, and soldered the circuit.

Raspberry Pi 4 Robot | *Embedded / Real-Time Systems*

- Incorporated real-time embedded systems for movement control, obstacle detection (90% accuracy), speed analysis. (**Python, Linux, FTP, SSH, VNC, Control system, PID**)

Other Relevant Projects

Web scraping & Data: Scraped data from a soccer website, then analyzed the data in the database to get insights on patterns (BeautifulSoup, SQLite3).

Android Note App: Java, Android Studio, SQLite.

Pi-hole: Used my Raspberry Pi as DNS server to block requests for advertising domains or malicious domains.

EDUCATION

BASc in Computer Engineering (Engineering Management Option) | *University of Ottawa* **Graduating Apr 2026**

Awards: Merit scholarship, Dean's Honour List, Engineering design day winner.

Engineering Students' Society: Third Year Electrical Engineering Representative.

IEEE Student Branch: Translations Commissioner contributing to branch media.

Hack the Hill hackathon: Marketing Communications Coordinator.