Sahaj Soti

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Education

University of Southern Mississippi (USM) *(Hattiesburg, MS, USA)* GPA: 3.930   *Aug 2023 – May 2027*
Major: Computer Engineering, Bachelor of Science   Minors: Physics, Mathematics, Computer Science
Xavier International College *(Kathmandu, Nepal)*   *Aug 2020 – Aug 2023*
Cambridge Assessment International Education (CAIE) A-Levels

Research Fields

Semiconductor   *Present*
Researching alternatives to silicon-based wafers focusing on aerospace, defense, and mining.
3D Printing (Link)   *Present*
Researching optimization of 3D-printing technology for scalability and affordability, as part of senior capstone project.
Encryption (Link)   *Present*
Collaborating on security measures for cloud-based encryption systems, in team, as part of university course.

Work Experience

Desk Assistant

University of Southern Mississippi Housing and Residence Life (Hattiesburg, MS, USA)   *Oct 2023 – Present*
- Communicated with 10+ residents hourly and documented their data and entries.
- Served as first point of contact for resident inquiries and crisis situations.

Teacher

Kathmandu Euro School (Kathmandu, Nepal)   *Nov 2022 – May 2023*
- Designed student curriculum and maintained academic records for over 200 students.
- Acted as liaison between students, parents, and school administration.

Projects

- **UrNotes:** App that allows users to lock their notes with timestamps to serve as an untamperable time capsule. Also includes a contracts section that allows users to create agreements with each other. *Available on the App Store.*
- **Naati:** App that matches elderly people with youths who are available to drive them to hospital and stay by them throughout the process. Targeted launch in Nepal with plans for intl. expansion. *Build in progress.*
- **SafeRouteConduit:** Next-generation cable management system designed to enable above-ground modular wire transmission, replacing existing overhead wiring and underground cable tunneling systems. *See More.*

Skills

- **Management:** Desk assistance, teaching, communication, data documentation.
- **Software:** MS Suite, MATLAB, 3D graphics design, ethical hacking, VHDL, Assembly, TinkerCAD, programming (C++, Python, HTML/CSS/JavaScript).
- **Hardware:** Mobile and laptop repair, PCB navigation, 3D printing, Arduino, Raspberry Pi.
- **Language:** English (Advanced), Nepali (Advanced), Hindi (Advanced)

Activities and Honors

- Runner up for Hult Prize Local Competition — Feb 2026
- Mentor for Incoming International Students — Dec 2023 – Feb 2024
- Executive Member, Nepalese Student Association at USM — Aug 2023 – May 2024
- President, Xavier International STEM Club — Aug 2020 – May 2022
- USM Dean's List (Fall 2025, Spr 2025), USM President's List (Fall 2023, Spr 2024, Fall 2024)
- USM Academic Excellence Scholarship Award
- SAT Score: 1520 (Math 780, English 740)

Certificates

- Android Mobile Hardware, Software, and EMMC Programming — Kathmandu Technical Institute
- Chip-Level Laptop Repairing — Kathmandu Technical Institute