

## Joseph Tabbah

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### EDUCATION

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2018	<b>College Mariste Champville</b> Lebanese Baccalaureate in Life sciences	Deek el Mehdi, Lebanon
2019-present	<b>Notre Dame University</b> In computer and communications engineering – notable courses taken: probability and statistics for engineers, Data structures, Data communications and computer networks, principles of database systems, object-oriented design, introduction to artificial intelligence	

### EXPERIENCE

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2018	winner of el Tahadi el Kabir season 4 (the great challenge) on tele Liban  Won a scholarship to a university in turkey	Keserwan, Lebanon
2017 to present	<b>Math , physics , coding</b> Private tutoring <ul style="list-style-type: none"><li>• Tutored many colleagues and helped them pass difficult courses</li><li>• Help students overcome learning difficulties in tough courses like electronics and communications</li></ul>	
2023 – 2023	ISS software Hive: full stack web development intern <ul style="list-style-type: none"><li>• Worked on SharePoint and Sitecore</li><li>• Used the Rest APIs to implement many webapps.</li><li>• Designed frontend using HTML and CSS</li><li>• Helped with the backend of a website for a reputable university in Dubai</li></ul>	Beirut, Lebanon
2025	Tamer frères S.A.L software development <ul style="list-style-type: none"><li>• Designed frontend of Tamer frères website in html and css</li><li>• Worked on SQL database for medical department</li><li>• Worked on AI face detection software in python</li><li>• Worked on custom images for Diebold Nixdorf ATMS</li><li>• Helped with ATM installation</li></ul>	Beirut, Lebanon

## PROJECTS ACCOMPLISHED

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- Employee management system, in C# using SQL and StarUml
- Webapp that allows companies to post the latest news with relevant ai generated images using typescript SharePoint and midjourney
- Functioning Pavegen tile that allows users to generate electricity when they step over it, using Arduino and a motor as well as c++ code
- Image encryption algorithm using MATLAB
- Dip switch circuits using tinkercad, meant to simulate an escape room  
[https://www.tinkercad.com/things/aWwQP0AXmBH?sharecode=y2FRiRuJUeHkz9ijEHKoESqSlqCTFj2fbRbfAA\\_cLjQ](https://www.tinkercad.com/things/aWwQP0AXmBH?sharecode=y2FRiRuJUeHkz9ijEHKoESqSlqCTFj2fbRbfAA_cLjQ)
- Dice game circuit using breadboards  
<https://www.tinkercad.com/things/9KrFLgfP0qz?sharecode=vs8d8lCuWjUXqqvJkzKWN6pcQWwRD30OBnF2sLDOjBU>
- MIPS game which allows user to shoot incoming blocks, done entirely in assembly code
- Fire alarm done using pic 16F877a and Mplab, includes temperature and flame sensors and has 2 zones to detect the fires
- UAV drone simulation , using matlab and Simulink
- Tamer freres website using html css and javascript
- Designed a 35 nm prosessor using cadence virtuoso
- Designed many circuits on Multisim , pspice , etc
- Strong experience with Arduino 4 including designing a weather station using Arduino 4 wifi and the Arduino cloud

## Skills

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- **Software:** Python, C++, typescript, JavaScript, HTML 5 , CSS , MATLAB , C# , assembly code, c#
- **Hardware :**
  - strong expertise in matlab and Simulink with many projects done
  - Strong experience in electronics, simulated many circuits on pspice and Multisim
  - Basic knowledge of pcb design including orcad and solidworks
- **Cybersecurity:** Wireshark, Nmap, kali Linux knowledge
- **Languages:** Fluent in English, Arabic and French, and somewhat fluent in Italian

### **Club membership**

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- IEE club member (CCS- IEE Branch)
- ASME club member
- AI club member
- Injaz Lebanon youth community member
- Forward digital MENA member

### **Presentations given**

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- Website template presentation given during internship at ISS
- Yes NDU business plan presentation in 2019
- Presentation on the future application of AI and neural networks during my AI course
- A deep dive into the basic principles of rotation qbits in quantum computing and it's applications for tensorflow workflows
- Uav drone system in matlab and Simulink presentation 2025

### **Project in progress**

I am currently working on a project coming to GitHub next year in collaboration with AUB students:

AI self driving car

Description: a self driving car designed with both hardware and software using custom raspberry pi tools and latest python programming techniques

Tech Stack: Python (Scikit-learn, PyTorch), Wireshark, TensorFlow, Flask.

Highlight Skills: Cybersecurity, anomaly detection, AI in real-time applications.

### **Certificates**

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- **Coursera – Neural networks and deep learning**
- **Coursera – Google Cybersecurity**

