

# Adnan Amara

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## EDUCATION

- **École Nationale Polytechnique d'Oran Maurice Audin** Oran, Algeria  
*Engineering degree - Electronics and embedded systems* December 2020 - July 2023  
*Courses:* Analog and digital electronics, object oriented programming, advanced processor, discrete control systems, software engineering, embedded systems, radio frequency systems, Antenna, artificial intelligence, robotics, radar, telecommunication.
- **École Nationale Polytechnique d'Oran Maurice Audin** Oran, Algeria  
*Master's degree - Electronics and embedded systems* December 2020 - July 2023  
*Courses:* Image processing, signal processing, electronic principles, computer systems.
- **École Nationale Supérieure d'Hydraulique** Blida, Algeria  
*Preparatory classes in science and technology* September 2018 - November 2020  
*Courses:* Analysis, Algebra, Organic chemistry, physics, rational mechanics, fluid mechanics, Strength of materials, economics.
- **Slimane Bouabdellaoui High School** Médéa, Algeria  
*Baccalaureate - Scientific field: 14.40/20* July 2018

## SKILLS SUMMARY

- **Languages:** Python, C, C++, SQL, VHDL, Octave, Latex, Matlab, Assembly
- **Frameworks:** Scikit-learn, TensorFlow, Arduino, Mbed
- **Tools:** GIT, MySQL, Microsoft Office
- **Platforms:** Linux, Windows, Arduino, Raspberry
- **Soft Skills:** Leadership, Writing, Public Speaking, Time Management

## EXPERIENCE

- **Shariket Kahraba El-Djazair-SKE** On site  
*Intern* March 2021 - April 2021 & December 2021 - January 2022
  - **Role:** I had the chance to do 2 internships at the power plant of Berrouaghia SKT, the 1<sup>st</sup> internship was a discovery internship, the 2<sup>nd</sup> was more a concrete one by participating directly in the operations of the electrical service such as the repair of electrical machines, installation of electrical cabinets, analysis of batteries and knowing the different protocols and digital communication systems used for the automation of process.
- **LM Electric** On site  
*Intern* June 2022 - July 2022
  - **Role:** In this internship, I was in charge of designing and installing a power supply system using EPLAN and Tia Portal.

## VOLUNTEER EXPERIENCE

- **Muhandis Club** Oran, Algeria  
*October 2022 - July 2023*
  - **Role:** I'm in charge of managing the club's content on social media.
- **American Corner Oran** Oran, Algeria  
*October 2021 - October 2023*
  - **Role:** I'm the responsible charge of making Electronics workshops for children and also participating in the cultural events that's organized by the American Corner.

## PROJECTS

- **Temperature Indicator:** A system that takes into account both external and internal temperatures, equipped with two temperature probes, one to be placed outside and the other inside the habitat (both to be kept in the shade). The motivation behind the development of this system stems from periods of high temperatures, during which it is recommended to ventilate the rooms at night and keep them closed during the day.
- **Arduino Based CNC Plotter Machine:** Numerous CNC machines exist globally, with some being highly technical and complex to manufacture or operate successfully. Due to this, the decision was made to construct a straightforward CNC machine based on the Arduino platform, which is by far the easiest to construct.

## LANGUAGE PROFICIENCY

- Arabic - native
- English - Full professional
- French - Full professional