

# Adnane Ezouhri

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## Professional Experience

**Electrical Engineer**, Arconic Inc May 2022 – August 2022

- Assisted Engineering team of in the completion of Thermal Camera Capital project to optimize cooling time
- Established a new communication architecture involving Modbus TCP/IP and Ethernet connections to increase efficiency of capital project
- Provided quick and continuous troubleshooting solutions to keep the plant running on schedule including but not limited to, switch replacement and reconfiguration of machinery
- Recorded and performed data analysis using Excel, PI Vision to pinpoint malfunction of machinery
- Upgraded and redesigned PLC/HMI controls in order to increase performance of the industry by optimizing cooling system

**Teaching Assistant**, University of Iowa College of Engineering August 2021 – January 2022  
ENGR:2120 Electrical Circuits

- Lead discussions with 30 students to enhance understanding of material such as Kirchhoff’s Law, Voltage and Current divider, DC and AC circuits
- Conducted review sessions for exams and homework
- Received positive feedback from majority of students
- Supervised lecture hall of over 120 students to provide adequate help during in-class assignment

**Student IT Support**, University of Iowa College of Public Health August 2021 – January 2022

- Collaborated with university student, faculty, and research to resolve 50+ issues a week ranging from software and hardware installation to everyday troubleshooting
- Diagnosed, installed, configured, and repaired computer systems and software
- Performed imaging of laptop computers for all new hires

## Engineering Projects

**Bluetooth voice-controlled car : Tesla Model DIY | Semester Project**  
Embedded Systems, University of Iowa January 2022-May 2022

- Implemented Bluetooth communication between a smartphone and a Bluetooth module to control the vehicle
- Constructed electrically powered car from scratch using Arduino microcontroller
- Wrote efficient function code in C to implement an obstacle detecting system and an obstacle avoiding system

**Smart Greenhouse | Semester Project**  
Internet of Things, University of Iowa January 2022-May 2022

- Created an original and interactive database using InfluxDB and Firebase
- Established internet and Bluetooth communication between the different components using a Raspberry Pi as the mediator in JavaScript and Node.js
- Used object-oriented programming, API and computer networking to achieve the envisioned result

## Education

**University of Iowa**, Bachelor of Science Electrical & Computer Engineering (B.S.E) August 2019-May 2023  
GPA: 3.4/4.0

**University of Iowa**, Master of Science Electrical & Computer Engineering (M.S) August 2022-May 2024

## Skills

C++	Python	Java	JavaScript	Teamwork	API	GUI	Networking	InfluxDB
SQL	C(language)	RaspeberryPi	Arduino	Electrical	Firebase	Software	Communication	Teamwork
MySQL			IDE	Circuits	Database	Design	Protocol	

## Leadership

**Model UN delegate**, Country delegate

- Delegate of Belgium in Geneva at UN headquarters, over the topic of AI in our society, was elected best delegate
- Delegate of Portugal in New York at the UN headquarters over the topic of food sustainability and world hunger