CHAIMAE AHARRAM

Telecom PFE Candidate | Engineering Student in Networks & Telecommunications at Ensa Tetouan | Bac+5

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About me

I am a final-year engineering student specializing in networks and telecommunications, with practical experience in **network design**, **embedded systems**, and **IoT development**. Throughout my academic journey, I have led several hands-on projects, including the **simulation of GSM networks** and **the development of a real-time gas leak detection system using Raspberry Pi**. Proficient in **Python, C#**, **SQL Server**, **and network optimization tools like Atol**l, I am passionate about emerging technologies such as **5G networks**, **IoT**, and **cybersecurity**. Known for my analytical mindset, problem-solving abilities, and collaborative spirit, I am seeking a **PFE internship** to apply my technical skills, contribute to innovative projects, and grow into a future role as a **telecommunications engineer**.

Projects & Experience

Car Rental Management Application

Tools: Visual Studio (C#), Microsoft SQL Server

Summary

- Designed and developed a complete management application for a car rental agency, integrating **client**, **vehicle**, **reservation**, and **payment management** modules.
- Programmed the interface using **C#** in Visual Studio and managed relational databases with **SQL Server** to ensure efficient data handling.
- Improved operational processes by automating booking and payment workflows, reducing manual effort by 30%.

GSM Mobile Network Simulation and Point-to-Point Communication Link

Tools: Atoll

Summary

- Simulated a **real-time GSM mobile network** using **Atoll** to optimize signal quality and network coverage.
- Configured and deployed a **point-to-point (PTP) communication link** to ensure secure data transfer between two remote sites.
- Tuned network parameters to enhance link performance, achieving a 15% increase in data transmission efficiency.

Real-Time Gas Leak Detection System with Raspberry Pi 4

Tools: Raspberry Pi 4, Python, MQ-2 Sensor

Summary

- Developed a real-time gas leak detection system using a Raspberry Pi 4 and an MQ-2 gas sensor, capable of identifying hazardous gas levels.
- Automated alert emails using Python, triggering notifications when gas levels exceeded predefined thresholds.
- Integrated a real-time notification system, improving response times to dangerous situations by 20%.

EDUCATION

Engineering Degree in Networks and Telecommunications

- **ENSA Tétouan | 2019 – Present**
  - Completed two years of integrated preparatory classes.
  - Currently pursuing an engineering degree specializing in networks and telecommunications.

Baccalaureate in Mathematical Sciences (A)

- **Lycée Charif El Idrissi | 2016 – 2019**
  - Graduated with honors

Soft Skills

Adaptability
Problem-solving
Communication Skills
Teamwork & Collaboration

Management & Personal Skills

Time Management
Leadership
Critical thinking
Attention to Detail
Creativity
Emotional Intelligence

Technical Skills

Software & Tools

- Microsoft Office (Excel, Word, PowerPoint)
- Cisco Packet Tracer, Atoll, MATLAB, CST Microwave Studio
- Advanced Design System (ADS), Code Composer Studio, LabView
- Microsoft SQL Server, Eclipse, Visual Studio, Dev-C++

Programming languages

- Python, Java, C#, C

LANGUAGES

Arabic
Native

Frensh
Advanced

English
Advanced

Interests

Programming and development
Reading about technologies
Conferences and seminars
Volunteer activities
Hiking

self-training

5G Basics: What it's all about

- Huawei Huawei ICT Academy : 2024-11-06