Anas El Fali

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PROFESSIONAL EXPERIENCE

ANDRITZ Hydropower North America — **Montreal, Canada**
Project Management Intern — *October 2025–Present*

- Support system and design engineers on hydropower modernization projects through technical documentation, component specification, and performance assessments, while coordinating deliverables, procurement schedules, and engineering change requests across multidisciplinary teams

National Electricity Regulatory Authority (ANRE) - Internship — **Rabat, Morocco**
Energy Systems Regulatory Engineering Intern — *June 2023–August 2023*

- Researched green hydrogen integration into Morocco's electrical grid and developed regulatory guidelines for its safe use, working with stakeholders to assess the impact on grid stability and energy storage

EDUCATION

Concordia University — **Montreal, Quebec**
Master of Engineering in Electrical and Computer Engineering — *September 2024 – Present*

- **Relevant Courses:** Microprocessors and Their Applications, Renewable Energy Systems, Telecommunication Network, Software Engineering, Internet of Things
- **Projects:** QoS Framework for UAV Communication Networks: MATLAB Simulation Study, Design and Implementation of a Digital Guitar Effects Pedal Using a STM32H753ZI Microcontroller, Design of a Grid-Connected Photovoltaic (PV) System for a House

Al Akhawayn University — **Ifrane, Morocco**
Bachelor of Science in General Engineering, Concentration in Mechatronics — *September 2020 – May 2024*

- **Relevant Courses:** FPGA for Embedded Systems, Power Electronics, Sensor Instrumentation, Thermodynamics, Data Analysis
- **Capstone Project:** Development and Simulation of a Thrust Vector Control (TVC) Landing System for Rocket Descent: A SpaceX-Inspired Approach
- **Publication:** Blockchain-Enabled Edge Computing and Sensor Integration for IoT-based Smart Grid Systems – Implementation and Energy Management: Morocco Case Study

VSB Technical University — **Ostrava, Czech Republic**
Exchange Semester — *September 2023 – January 2024*

- **Relevant Courses:** Signals and Systems, Mechanics of Materials, Data Transmission
- **Project:** Simulation of Radar Transmission with Barker Code Autocorrelation Techniques

LANGUAGES & TECHNICAL SKILLS

- **Languages**: French (Fluent), English (Fluent), Arabic (Fluent), German (Conversational)
- **Software**: MATLAB, Simulink, Claude Code, Altium, SolidWorks, Ansys, Proteus, JIRA, SAP, Excel, Power BI
- **Programming**: C, Python, VHDL, Django
- **Other**: Control systems design, electrical engineering design, programmable logic controller (PLC), technical documentation

EXTRACURRICULAR ACTIVITIES

- **Space Concordia, Liquid Rocketry Division (SCLR)**, Avionics Sub-division Member — *Fall 2024 – Present*
  Contribute to flight computer, sensor, and telemetry/communications systems for the Starsailor rocket program.
  Montreal, Canada
- **AUI Mechatronics Team**, Mechanical Team — *November 2022 – May 2024*
  Winner of the 2023 and 2024 edition of the "VEX ROBOTICS" competition in Morocco and qualification at the international level in Dallas, Texas.
  Ifrane, Morocco
- **JIHA Nautical Club**, Professional Swimmer — *2009 – 2024*
  Participation in the National Championship and Throne Cup in Morocco.
  Marrakech, Morocco

References available upon request