Mohamed Amine Khalf

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Fluent in French/English/Arabic

Areas of Expertise

ENGINEERING	▪ **8 years** of experience in high-tech manufacturing environments in both small & large businesses. ▪ Leadership of technical teams composed of technicians and engineers. ▪ Good knowledge of common Engineering/H&S standards and good practices.
PRODUCT DEVELOPMENT	▪ **3 years** of experience in V-Model based system development. ▪ Development of verification and validation testing tools & platforms. ▪ Elaboration of test and commissioning plans and strategies. ▪ Requirements Management based on customer specifications, standards and regulations.
PROJECT MANAGEMENT	▪ **5 years** of Project Management experience on multidisciplinary and various scales projects. ▪ Member of the Project Management Institute working toward the obtention of the PMP® certification (Member ID 6344187)

Education

2019 – (2021)	**Master of Business Administration (MBA)** Minor: Finance & Digital Business HEC Montreal
2011 – 2013	**Master's in Applied Science (M.Sc.)** Electrical Engineering – Electrical Machine Design University of Quebec in Chicoutimi (UQAC)
2007 – 2011	**Bachelor of Engineering (B.Eng.)** Electromechanical Engineering University of Quebec in Abitibi-Temiscaminque (UQAT)

Training & Certifications

(2021)	**PMP® Certification (expected May 2021)**
2018	**IBM Rational DOORS – Requirements Management Software**
2016	**AutoCAD Electrical 4-Days Intensive Training Course**
2015	**HAZOP and FMEA methods and analysis**
2013	**COMSOL Multiphysics 2-Days Intensive Training Course**

IT Knowledge

Engineering	ANSYS, AutoCAD Electrical, COMSOL Multiphysics, MATLAB/Simulink, NI Multisim, SolidWorks, PowerWord, PSpice
PROJECT MANAGEMENT	DOORS, MS Office, MS Project, MS Visio, Primavera P6, TABLEAU
PROGRAMMING	C++, LaTeX, MATLAB, SQL, Python, HTML5

Professional Experience

Apr. 2018 – Today (2yrs & 4 mos.)	Bombardier Transportation | Greater Montreal Area, QC **Test & Integration Manager – AME Division** Responsibilities: ▪ Develop and implement testing & commissioning strategies for Rolling Stock projects. ▪ Manage Quality, Time and Cost of testing & commissioning programs for multi-billion dollars projects. ▪ Key interface of the testing group with projects core team and leadership groups. ▪ Lead teams of test technicians and engineers.

Key Achievements:
- Management of the vehicle testing & commissioning program of a $2.2B Light Rail Transit 3P contract for the City of Edmonton. Program completed in 35% less time then similar type and scale contracts + on budget & without safety incident.
- $2 million Business Case investment on a train simulator for a $2.4B Rail Commuters project for the City of New Jersey.

Feb. 2015 – Apr. 2018 (3 yrs. & 2 mos.)	TEKNA Holding Inc. | Sherbrooke, QC **Systems Project Manager & Operations Support**

- Support and optimize existing equipment and facilities using modern productivity, quality and efficiency improvement strategies and tools.
- Develop new equipment and systems, starting from the study and conceptual design phase to the commissioning.
- 24/7 operations support of an ISO 9001 and AS 9100 metal powder production plant.

Jan. 2013 – Dec. 2014 (2 years)	Recentis Advanced Materials | Brossard, QC **R&D Electrical Engineer**

- Design, implementation and improvement of production units.
- Computer aided simulation and design of the various prototypes and devices for the treatment of materials and other components developed.
- Planning, automation and instrumentation selection for the processes developed.
- Involvement in the research and development process, particularly with respect to the implementation and interpretation of the electrical tests related to the processing of metal powders and produced materials.

Sept. 2011– Apr. 2012 (8 months)	University of Quebec in Abitibi-Temiscaminque (UQAT) | Rouyn-Noranda, QC **Manager of Electromechanical Engineering Laboratory and Teaching auxiliary**

Publications

Publication in the IEEE Canadian Conference on Electrical and Computer Engineering 2012 (CCECE)
M. Amine Khalf, René Wamkeue, Davide Aguglia, "*Finite Element Approach for Performances Prediction of a Small Synchronous Generator using ANSYS Software*"

Interests

- **Macroeconomy and Geopolitics:** Political decisions and economic policies, visible on the surface, are often a by-product of deep sociological & anthropological underground waves.

- **Understanding the world through Data:** Since the last 3 years, I have gained a great interest in data analysis using the Python programming language ecosystem and statistical technics. My work is mainly focused on emerging countries macroeconomic data analysis, seeking for patterns and correlations between GDP inputs/outputs and the level of development and well-being of the populations.

- **Algorithmic Trading:** I am working on the development of a trading-bot for Stocks and Forex. The trading bot will automatically submit trading orders to a broker and will perform portfolio risk management based on the specified strategy. I use python ecosystem and SQL databases along with web scrapping and API connections. I am now at the stage of building the Back-Testing algorithm.

- **Soccer Club Manager** at Bombardier Transportation: Organize soccer matches and competitions, manage the soccer community.

- **Piano** (Intermediate Level)**, Arduino** (mainly drones)**, Astronomy** (deep sky objects observation).

Availability & Mobility

AVAILABILITY	Moroccan & Canadian Citizen | US Open Work-Permit until 2023
	40h/week (very flexible) | travel up to 50%
MOBILITY	Driving License class 5 | Mobile Nationally and Globally

References available upon request