ABDULRAHMAN KANAA

Research leader | PhD | IT, AI, Digital Transformation

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CAREER SUMMARY

Research leader focused on the design of end-to-end AI and machine learning solutions for digitalized industries. Over eight years of experience in managing projects of varying sizes and cross-functional teams. Strong organizational, analytical, and interpersonal skills. Passion for teamwork and creative problem-solving.

PROFESSIONAL EXPERIENCE

Research institute of Sweden (RISE), Sweden   Sep 2017 – Present
Multidisciplinary research Project Management
Project Manager/Senior researcher
Managed and executed more than 15 applied digitalization, AI and machine learning projects successfully, including applications in various sectors such as healthcare, logistics, and manufacturing. Primary responsibilities include:

- **Digital Transformation Leader,** heading transformation projects across multiple industries. I guide organizations in enhancing efficiency, optimizing workflows, and unlocking new business opportunities. My key roles include strategic planning, technology adoption, stakeholder alignment, and ensuring seamless integration of innovative solutions into existing operations.
- **End-to-End AI (E2E AI) Research Lab Leader,** my focus is on integrating AI technologies across an organization's operations, emphasizing the development of AI strategies. By creating systems that can understand, learn, process, and respond intuitively, and implement advanced AI technologies such as deep learning and reinforcement learning, my goal is to transform traditional, modular approaches, achieving comprehensive and efficient AI solutions.
- **AI Ambassador,** I advocate for ethical AI adoption, simplifying complex concepts and collaboration across industries, academia, and government. I identify impactful use cases, promote R&D, and ensure inclusiveness in AI systems while helping organizations integrate solutions to address.

University of Technology Malaysia (UTM), Malaysia   Mar 2012- Sept 2017
Research Assistant
- Research on advanced air traffic monitoring system, incorporating state-of-the-art technologies.
- Implementation the air traffic monitoring system on Software Defined Radios (SDRs) using C++ programming language, ensuring seamless and efficient communication.
- Optimization of the vessels tracking system by leveraging ORBCOMM satellite data, resulting in enhanced accuracy and real-time tracking capabilities.
- Supervision in Digital Signal Processing Lab, analyzing and processing wide spectrum signals.

MAINT. & CONT. CO. (ATMC telecom), Saudi Arabia   Mar 2008- Oct 2009

RF Engineer
RF planning, optimization, and maintenance for GSM (2G/3G) networks in KSA. My responsibilities include:
- RF planning and optimization for GSM (2G/3G) networks in KSA, focusing on enhancing coverage, capacity, and quality of service.
- Efficiently performed maintenance and troubleshooting for 500 towers, ensuring continuous network functionality and prompt resolution of technical issues.

EDUCATION

Mar 2012 - Feb 2017 **PhD in Electrical Engineering (Digital Signal Processing)**
Faculty of Electrical Engineering, Universiti Teknologi Malaysia, Malaysia

Jun 2010 - Feb 2012 **Master's Degree in Electronics & Telecommunications Engineering (Best Postgarduate Student Award)**
Faculty of Electrical Engineering, Universiti Teknologi Malaysia, Malaysia

COMPETENCES

Project Management: Planning, budgeting, team management, communication, risk assessment
Business Development: Strategic thinking, networking, analytical skills, research
Lifelong Learning: Leadership, collaboration, problem solving, creativity, reflection

AWARDS / PRIZES

Sep 2023   **Fund winner from Process Industrial IT and Automation (PiiA)**
Stockholm, Sweden

Feb 2023   **Prize winner (AIforFlood) from Sandviken Energy on Water Challenge**
VentureCup, Sweden

Feb 2012   **Best Postgraduate Student Award**
Universiti Teknologi Malaysia

CERTIFICATION / AFFILIATION

Oct 2020   **Certificate on Applied Project Management,** Wenell, Sweden
Feb 2015   **Course on Subspace-Based Techniques: Signals and Images Application**
Universiti Teknologi Malaysia
Feb 2011   **Certificate in Long Term Evolution (LTE) Network**
Universiti Teknologi Malaysia
Oct 2008   **Certificate in international computer driving ICDL**
New Horizon institute

TECHNICAL SKILLS

Azure DevOps, Atlassian JIRA, Microsoft Planner, RISE Project Model (RPM), Qlik Data Integration, Power BI, MATLAB/Simulink, C++, C#, Java, Python, TensorFlow, Google cloud, Jupyter notebook and Gitlab, Unity, Docker, NodeRED, Grafana, TPT testing software.

LANGUAGES

English (Fluent), **Swedish** (Intermediate)