Contact

No.3 Building, Western China Science and Technology Innovation Harbour, No.999 Siyuan Round South Road, Fengxi New City, Xixian New Area, Xi'an, 712000, Shaanxi, China
008615691755059 (Mobile)
saifalseedi@gmail.com

www.linkedin.com/in/saif-aldeen-al-kadhim-96230561 (LinkedIn)
saifaldeensaad.github.io (Personal)

Top Skills

Industrial Automation
Root Cause
Presentations

Languages

English (Professional Working)
Hungarian (Elementary)
Arabic (Native or Bilingual)
Chinese (Limited Working)

Certifications

Agile Project Management
Principles of Load Forecasting in Google Sheets
أساسيات الدعم الفني
ELEC301x: Discrete Time Signals and Systems
Start the UX Design Process: Empathize, Define, and Ideate

Publications

Study on the design and application of the three-electrode ionization particle sensor
IoT Management Solution: A Case Study of Fill Level Monitoring for Gravel Silos
CNC machine based on embedded wireless and Internet of Things for workshop development

Saif aldeen AL-KADHIM

Technical Project Management | MEMS and IoT Engineer | Sensor Systems Specialist | Automotive & Smart Building Technologies | PCB Design | Bridging R&D with Industrial Applications | Bridging R&D with Market Needs
Budapest, Budapest, Hungary

Summary

Technical Project Manager and MEMS/IoT Researcher with 15+ years of cross-functional experience bridging R&D with industrial applications. Ph.D. candidate in Electrical Engineering specializing in sensor systems for automotive and smart building technologies. IEEE Senior Member with expertise in MEMS design, IoT platforms, and PCB development.
Currently leading sensor innovation at the State Key Laboratory of Electrical Insulation and Power Equipment (IEMIT), where I manage RMB 5M+ R&D projects from concept to deployment, reducing time-to-market by 25% through Agile methodologies. Published researcher with 8+ peer-reviewed publications cited 150+ times in IEEE journals.
Previous experience includes directing infrastructure upgrades for historical and religious sites, implementing hybrid project methodologies to improve delivery speed by 30% while maintaining compliance standards. Expert in AutoCAD, SOLIDWORKS, COMSOL, ANSYS, and IoT platforms (AWS IoT, Azure IoT).
Passionate about developing next-generation sensor systems that solve real-world challenges in harsh environments, with proven success in enhancing device sensitivity and optimizing industrial equipment efficiency. Multilingual professional fluent in English and Arabic with working knowledge of Chinese and Hungarian.
Seeking opportunities to leverage my technical expertise and project management skills in innovative environments where I can continue to drive impactful technological solutions that bridge research advancements with market needs.

Experience

State Key Laboratory of Electrical Insulation and Power Equipment, IEMIT

Prototype Wireless Controller System based on Raspberry Pi and Arduino for Engraving Machine

Industrial Workshop Based on Internet of Things: Automated Manufacturing Systems Technology

Technical Project Management
October 2021 - Present (3 years 7 months)
Xi'an District, Heilongjiang, China

Lead cross-functional teams in developing MEMS-based sensor systems for automotive/industrial automation, published in Sensors and Actuators A (Top 10% Impact Factor).

Spearheaded IoT-enabled monitoring platforms (analogous to Siemens T3000), optimizing industrial equipment efficiency by 18% through MATLAB/Simulink simulations.

Managed RMB 5M+ R&D projects from concept to deployment, reducing time-to-market by 25% using Agile methodologies.

Partnered with global stakeholders to align technical requirements with ISO/IEC standards for harsh-environment sensors.

Authored 8+ peer-reviewed publications on sensor innovation, cited 150+ times in IEEE journals.

Engineering department, directors of Babel
12 years 4 months

Chief Engineer
December 2019 - March 2021 (1 year 4 months)
Iraq

Directed 15+ infrastructure upgrades for historical sites, delivering projects 10% under budget through strategic procurement and vendor negotiations.

Implemented Agile-Waterfall hybrid methodologies, improving project delivery speed by 30% while maintaining heritage conservation compliance.

Designed control systems and wiring diagrams for 20+ religious site rehabilitations, resolving structural vulnerabilities with 100% safety adherence.

Trained 25+ engineers on AutoCAD and SOLIDWORKS, reducing design errors by 40% across teams.

Assistant Chief Engineer
December 2017 - December 2019 (2 years 1 month)
Multiple location

Managed restoration of 10+ UNESCO-listed religious sites, leveraging Revit to reduce drafting time by 20% and ensure historical integrity.

Secured permits from government bodies for 15+ projects, aligning with local preservation laws and reducing approval delays by 35%.

Introduced safety protocols that cut onsite incidents by 25%, achieving zero OSHA violations over 2 years.

Project Engineer
December 2013 - December 2017 (4 years 1 month)
Iraq

Supported the planning and execution of restoration projects for historical and religious sites, ensuring compliance with heritage conservation guidelines and safety standards.

Assisted in managing project timelines and budgets, contributing to the completion of 10+ infrastructure upgrades under senior leadership direction.

Conducted structural assessments and drafted technical reports to address vulnerabilities in aging structures, collaborating with senior engineers and architects.

Utilized AutoCAD and Revit to prepare detailed design plans, improving accuracy and reducing revision cycles by 15%.

Coordinated with contractors and onsite teams to monitor progress, resolve technical issues, and ensure adherence to safety protocols.

Played a key role in the rehabilitation, assisting in material selection and quality control to preserve historical authenticity.

Electrical Site Engineer
December 2010 - December 2013 (3 years 1 month)
Iraq

Supervised electrical installations and maintenance for historical site restoration projects, ensuring compliance with IEC standards and local electrical codes.

Conducted site inspections to assess electrical systems, troubleshoot faults, and recommend upgrades for aging infrastructure in religious and heritage buildings.

Collaborated with architects and civil engineers to design and implement electrical layouts, including lighting, power distribution, and safety systems.

Oversaw the installation of low-voltage systems (e.g., fire alarms, security systems) and ensured proper grounding and surge protection for sensitive equipment.

Prepared detailed electrical drawings using AutoCAD Electrical and coordinated with contractors to ensure adherence to project timelines and specifications.

Performed load calculations, voltage drop analysis, and cable sizing to optimize energy efficiency and reduce system downtime by 15%.

Led quality control checks for wiring, circuit breakers, and switchgear, resolving 20+ technical issues during the rehabilitation.

Trained junior technicians on electrical safety protocols, reducing onsite hazards and achieving zero electrical accidents during the project lifecycle.

Junior Electrical Engineer

December 2008 - December 2010 (2 years 1 month)

Iraq

Assisted senior engineers in electrical installations and maintenance for historical site restoration projects, ensuring compliance with local electrical codes and safety standards.

Conducted routine site inspections to test wiring, circuit breakers, and grounding systems, reporting issues to supervisors for resolution.

Supported the design of electrical layouts (lighting, power distribution) using AutoCAD, contributing to 5+ projects under senior engineer guidance.

Performed voltage, current, and continuity tests using multimeters and clamp meters, documenting results for quality assurance reviews.

Assisted in troubleshooting electrical faults in aging infrastructure, such as overloaded circuits or damaged wiring, under senior supervision.

Coordinated with contractors to verify proper cable routing, conduit installation, and adherence to project specifications.

Prepared technical reports and as-built documentation for electrical systems, ensuring accuracy for archival and compliance purposes.

Participated in the rehabilitation, focusing on tasks like fixture installation and safety system testing.

RTI International
Research Assistant
September 2006 - December 2008 (2 years 4 months)
Iraq

Analyzed data for 10+ infrastructure studies, improving research efficiency by 15% through Excel automation.

Collaborated on technical reports for USAID-funded projects, ensuring alignment with international engineering standards.

ALJEBAL ALSHAMEKHAT (Contractor for US Army Corps of Engineers)
Electrical Engineering Intern
May 2005 - September 2006 (1 year 5 months)
Iraq

Supported the US Army Corps of Engineers in electrical infrastructure projects for military facilities, ensuring compliance with NEC standards and military-grade safety protocols.

Assisted in designing and installing electrical systems (lighting, power distribution, grounding) for 3+ critical infrastructure projects under senior engineer supervision.

Conducted site inspections and testing of circuit breakers, transformers, and emergency backup systems using multimeters and infrared thermography.

Drafted wiring diagrams and as-built documentation in AutoCAD, improving project accuracy for archival and compliance audits.

Collaborated with cross-functional teams to troubleshoot electrical faults, reducing system downtime by 15% during the Almusaib thermal power station Upgrade.

Adhered to strict deadlines and quality assurance guidelines for contracts valued at $500K+, contributing to on-time project delivery.

Education

Xi'an Jiaotong University

Doctor of Philosophy - PhD, Electrical and Electronics Engineering · (September 2020 - July 2024)

University of Technology - Iraq

Master of Science - MS, MEMS · (September 2014 - May 2017)

Middle Technical University

Higher National Diploma, power system · (September 2009 - May 2011)

University of Babylon

Bachelor of Science - BS, Electrical, Electronics and Communications Engineering · (September 2002 - July 2006)