

Muhammad Ekbal Ahmad

Software Engineer & Researcher

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Muhammad-Ekbal-Ahmad • Google Scholar

Education

Carl von Ossietzky University Oldenburg, Computer Science – Oldenburg, Germany — Jan 2017 – Jan 2020
- Master's thesis

Tishreen University, Computer Science and Automatic Control – Syria — Jan 2003 – Jan 2008

Experience

TUHH-IDAC, Scientific Researcher – Hamburg, Germany — 2021 – present

OFFIS, Scientific Researcher (WIMI) – Oldenburg, Germany — Oct 2020 – 2021
Research work associated with the ViVre project.

OFFIS, Research Assistant (WIHI) – Oldenburg, Germany — Nov 2018 – Oct 2020
Research work associated with the Designetz project.
- Frontend development using Angular.
- Data visualization using D3.js.
- Graph visualization using Graphviz.
- Geographic visualization using Leaflet.

Project Group RIO, Frontend Developer – Oldenburg, Germany — Oct 2018 – Sept 2019
Development of a navigation application.
- Frontend development using Angular.
- Mobile application development using Apache Cordova.

OFFIS, Research Assistant (WIHI) – Oldenburg, Germany — Nov 2017 – Oct 2018
Research work associated with the IKIMUNI project.
- User interface development using Qt Quick and QML.
- Software development using C++.
- Industrial communication using OPC UA.

Publications

Workshops

- Staying Calm and Full of Energy - Stress Competence for PhD Candidates (2021-11-02)
- Introduction to the Rules of Good Scientific Practice (2021-11-29)
- Perfekt ins Job einsteigen (2021-03-03)

Skills

Programming Languages

Frontend Development

Visualization and Mapping

Mobile Development

UI Development

Communication Protocols

Research Interests

Languages

German | English | Arabic | Kurdish

Interests

Research

Applications

Certificates

Projects

Multi-Robot Collaboration for Monitoring and Inspection of Civil Engineering Structures Oct 2026 – present
Research project on multi-robot collaboration for monitoring and inspecting civil engineering structures.
- Project details: https://www.tuhh.de/idac/research/multi-robot-collaboration

Modeling and Design Concepts for Digital Roads Oct 2023 – Oct 2026
Research project focused on modeling and design concepts for digital road infrastructure.
- Project details: https://www.tuhh.de/idac/research/digital-roads

Semi-Probabilistic, Sensor-Based Design Concepts for Intelligent Structural Systems Oct 2021 – May 2022
Research project investigating sensor-based design concepts for intelligent structural systems.
- Project details: https://www.tuhh.de/idac/research/intelligent-structures

ViVre Oct 2020 – 2021
Research project associated with scientific work at OFFIS.
- Scientific research at OFFIS.

Designetz Nov 2018 – Oct 2020
Research project involving frontend development and visualization.
- Angular frontend development.
- Data visualization with D3.js.
- Graph visualization with Graphviz.
- Geographic visualization with Leaflet.

Navigation Application Oct 2018 – Sept 2019
Navigation application developed with Project Group RIO.
- Angular frontend.
- Mobile support using Apache Cordova.

IKIMUNI Nov 2017 – Oct 2018
Research project involving user interface and software development.
- Qt Quick and QML.
- C++ development.
- OPC UA communication.

References