Zacharias Aram

Zacharias.Aram@ruhr-uni-bochum.de • +49 176 55780914 • Linkedin • Website

SKILLS AND INTERESTS

Programming:	Python, PowerShell, C/C++, Html, SPS, Robot Programming (Universal Robots)
Frameworks and Tools:	YOLO (v8), RoboFlow, Google Colab, Jupyter Notebook, PyCharm
Software:	GitHub, Microsoft 365, Inventor, SolidWorks, Plant Simulation, Matlab
Languages:	Fluent in German, Aramaic, and English
Personal Interests:	Weightlifting, Traveling, and spending Time with Family and Friends

EDUCATION

Ruhr-Universität Bochum   Bochum, Germany
Master of Science   April 2022 – est. August 2024
- **Major, current GPA:** Mechanical Engineering, 3.8
- **Master's Thesis:** Artificial Intelligence and Computer Vision for Automated Recognition of Assembly Steps in the Context of Assistance Systems

Universiti Putra Malaysia   Selangor, Malaysia
Semester Abroad   March 2023 – July 2023

Ruhr-Universität Bochum   Bochum, Germany
Bachelor of Science   September 2017 – March 2022
- **Major, GPA:** Mechanical Engineering, 2.2
- **Bachelor's Thesis:** Development of a Mobile Collaborative Robot System for Foaming Processes in the Automotive Industry

Istanbul Teknik Üniversitesi   Istanbul, Turkey
Semester Abroad   October 2020 – March 2021

Städtisches Gymnasium Ahlen   Ahlen, Germany
A-level   August 2011 – July 2017

PROFESSIONAL EXPERIENCE

Comma Soft AG   Bonn, Germany
Working Student: IT Consulting   February 2024 – est. August 2024
- Programming and fine-tuning Microsoft DSC to optimize cloud infrastructure
- Developing and implementing Digital Workplace solutions with Microsoft 365 and Azure

Ruhr-Universität Bochum | Lehrstuhl für Produktionssysteme   Bochum, Germany
Student Assistant   July 2022 – April 2023
- Supported and advised on the digital transformation of international companies
- Creating and presenting self-learning modules in the international project consortium

Cademy GmbH   Ennepetal, Germany
Bachelor's Internship: Project Management   August 2021 – March 2022
- Independently developed a mobile collaborative robot system for the automotive industry

Cademy GmbH   Ennepetal, Germany
Technical Intern   March 2021 – July 2021
- Gaining knowledge in areas such as Controllino PLC, Automated Guided Vehicles, collaborative robots, design, and additive manufacturing
- Conducting research and quality testing in collaboration with the Fraunhofer Institute

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PROJECTS

Ruhr-Universität Bochum | Lehrstuhl für Produktionssysteme   Bonn, Germany
Main Project - Microsoft 365   February 2022 – present
- Investigating and implementing Microsoft DSC for exporting tenant settings and creating blueprints
- Developing a system to compare existing M365 tenants with created blueprints to derive optimal recommendations
- Utilizing DSC exports for tenant maintenance and configuration optimization

Ruhr-Universität Bochum | Lehrstuhl für Produktionssysteme   Bochum, Germany
Master's Thesis - Artificial Intelligence   October 2022 – est. August 2024
- Development and implementation of an innovative AI-based system for detecting assembly steps in manual assembly using advanced computer vision techniques
- Analysis and modeling of human movements and activities using AI algorithms to improve human-machine interaction
- Contribution to the optimization and efficiency enhancement of worker assistance systems through the use of artificial intelligence and machine learning

Cademy GmbH   Ennepetal, Germany
Bachelor's Thesis - Robotics   August 2021 – March 2022
- Independent development and conception of a mobile, collaborative robot system to increase efficiency in the foaming process of the automotive industry
- Development of an autonomous system for precise detection of tool positions and their openings to increase production flexibility and reduce manual interventions
- Successful construction and testing of a functional prototype that can be used in real industrial environments

VOLUNTEERING

Volkshochschule Ahlen   Ahlen, Germany
Volunteer   October 2022 – March 2023
- Trainer for students

Ingenieure ohne Grenzen e.V.   Bochum, Germany
Candidate   November 2019 – February 2020
- Developed a brick press for disadvantaged groups in Africa