

# Zacharias Aram

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## SKILLS AND INTERESTS

**Programming:** Python, SQL, PowerShell, C/C++, Html, SPS, Robot Programming (Universal Robots)

**Software:** Jupyter Notebook, PyCharm, Microsoft 365, SSMS, Inventor, SolidWorks, Plant Simulation, Matlab

**Languages:** Fluent in German, Aramaic, and English

**Personal Interests:** Weightlifting, Traveling, and spending Time with Family and Friends

## PROFESSIONAL EXPERIENCE

### LIS - Logistische Informationssysteme

*IT Consultant & Project Manager*

Greven, Germany

September 2024 – Present

- Utilizing Python, SQL, and Microsoft Office to optimize workflows and resolve technical challenges
- Serve as a liaison between IT development and clients to successfully implement IT solutions and manage projects efficiently
- Advise on the implementation and use of IT systems with a focus on process improvement, automation, and technological efficiency
- Conduct requirements analyses and implement customized IT solutions to optimize logistical processes and introduce Warehouse Management Systems

### Comma Soft AG

*Working Student: IT Consultant*

Bonn, Germany

February 2024 – August 2024

- Programming and fine-tuning of Microsoft DSC to provide customized configuration management solutions and optimize IT infrastructure
- Utilizing Microsoft 365 and Azure for the development and implementation of Digital Workplace solutions
- Contributing to the conception and realization of innovative cloud solutions
- Applying a wide range of tools and technologies in the area of cloud infrastructure and IT security to deliver comprehensive customer solutions

### Ruhr-Universität Bochum | Lehrstuhl für Produktionssysteme

*Student Assistant*

Bochum, Germany

July 2022 – April 2023

- Supported and advised on the digital transformation of international companies
- Created self-learning modules on Industry 4.0, maturity models, value creation processes, and digital business models
- Presented the self-learning modules in an international project consortium
- Conducted workshops

### Cademy GmbH

*Bachelor's Internship: Project Management*

Ennepetal, Germany

August 2021 – March 2022

- Independently developed a mobile collaborative robot system for the automotive industry

### Cademy GmbH

*Technical Intern*

Ennepetal, Germany

March 2021 – July 2021

- Trained in the following areas: Controllino PLC (industrialized Arduino), AGVs, collaborative robots, design, and additive manufacturing
- Assisted in research for agent-free manufacturing for the Fraunhofer Institute
- Assisted in quality control preparations and procedures
- Programmed Siemens LOGO control units

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## EDUCATION

### Ruhr-Universität Bochum

*Master of Science*

Bochum, Germany

April 2022 – August 2024

- **Major, GPA:** Mechanical Engineering, 3.7
- **Master's Thesis:** Artificial Intelligence and Computer Vision for Automated Recognition of Assembly Steps in the Context of Assistance Systems

### Universiti Putra Malaysia

*Semester Abroad*

Selangor, Malaysia

March 2023 – July 2023

### Ruhr-Universität Bochum

*Bachelor of Science*

Bochum, Germany

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

*Semester Abroad*

Istanbul, Turkey

October 2020 – March 2021

### Städtisches Gymnasium Ahlen

*A-level*

Ahlen, Germany

August 2011 – July 2017

## PROJECTS

### Ruhr-Universität Bochum | Lehrstuhl für Produktionssysteme

*Master's Thesis*

Bochum, Germany

October 2022 – 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

*Bachelor's Thesis*

Ennepetal, Germany

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

*Volunteer*

Ahlen, Germany

October 2022 – March 2023

- Trainer for students

### Ingenieure ohne Grenzen e.V.

*Candidate*

Bochum, Germany

November 2019 – February 2020

- Developed a brick press for disadvantaged groups in Africa