



ALMOHAB CHALABI

CONTACT



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Hamburg, DE

PROFILE

Computer Engineering student at TU-Hamburg with hands-on experience in embedded systems, IoT, and software development. Strong background in C/C++, Python, and system-level programming. Seeking a working student position or internship in Embedded Systems, Backend, or IoT development.

EXPERIENCE

Present

Working Student– Field Assistant.

Starship Technologies, Hamburg.

- Diagnosed and resolved hard-/software issues in autonomous delivery robots.
- Analysed sensor data and system logs to improve system reliability.

Since 2022

Freelance Interpreter.

Federal Office for Migration and Refugees (BAMF), Germany.

- Provide real-time translation (Arabic ↔ German) in official and legal contexts.

10/23 - 02/24

Robotics & Technology Instructor.

Doin'good, Hamburg.

- Taught robotics and technical fundamentals to students.
- Supported individualized learning and hands-on project development.

10/22 - 06/23

Working Student– Night Audit.

Crowne Plaza, Hamburg.

- Managed Front office operations and guest services during night shifts.

01/19 - 05/20

Freelance Web Developer.

- Developed and deployed websites with database integration.
- Provide technical consulting and client support.

03/17 - 10/17

Intern – Web Development.

JUNE, Hamburg.

- Optimized frontend performance and implemented email newsletters.

06/15 - 07/15

Intern – Production & Logistics.

Jungheinrich AG, Hamburg.

- Assisted in production workflows and logistics processes.
- Contributed to material flow optimization.

EDUCATION

Present

- **B.Sc. Computer Engineering.**
TU-Hamburg.

05/15 - 10/17

- **German Languages Courses**
Inlingua & IBH, Hamburg, Germany

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|---------------|--|
| 07/14 - 05/15 | <ul style="list-style-type: none"> • Vocational School
BS28, Hamburg, Germany |
| 2013 | <ul style="list-style-type: none"> • Uni Entrance Qualification
S.O.C.S, Damascus, Syria |

PROJECTS

- | | |
|----------|---|
| 2026 | StudyFlow – Study Planner
<i>Personal Project</i> <ul style="list-style-type: none"> • Web-app that automatically creates and reschedules study plans when users fall behind • Full-stack development: Next.js, TypeScript, Prisma, and AI-powered planning. • Independently designed, developed, and deployed |
| SS 26 | Cyber Physical Systems
<i>TU-Hamburg</i> <ul style="list-style-type: none"> • Autonomous ROS 2 robot with lane following and PD control. • Camera/LiDAR integration and OpenCV-based image processing. • Traffic light detection, camera calibration, and rosbag testing. |
| WS 24/25 | 3D Data Processing & Heatmap Generation.
<i>TU-Hamburg.</i> <ul style="list-style-type: none"> • C program to process 3D measurement data and generate BMP heatmaps. • Implemented interpolation algorithms for resolution enhancement. • Optimized memory usage through dynamic allocation techniques. |
| WS 23/24 | C-Based Emulator for Harvard Architecture.
<i>TU-Hamburg.</i> <ul style="list-style-type: none"> • C emulator simulating a simplified Harvard architecture with 16 instructions. • Implemented file I/O, pointers, and structured data types. • Developed optional assembler and hex input/output handling. |
| WS 21/22 | IoT Data Acquisition System.
<i>TU-Hamburg.</i> <ul style="list-style-type: none"> • Integrated sensors and microcontrollers for real-time data collection. • Built a base station with MQTT-based communication. • Developed a web application for data visualization and user interaction. |

SKILLS

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| TECHNICAL | <ul style="list-style-type: none"> • Programming Languages: C/C++, Python, TypeScript. • Frameworks & Web: React, Node.js, Vue, Tailwind CSS. • Embedded Systems & Hardware: Arduino, STM32, Raspberry Pi. • Databases: MongoDB (NoSQL). • Tools & Technologies: Git/GitHub, Linux, CLI, Bash and AI. • Network & Security: TCP/IP, Network security, IPsec/TLS, Wireshark, SSH. |
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LANGUAGES

- Arabic (Native).
- German (Fluent).
- English (Fluent).

ADDITIONAL

- Driving License (Class B) and Chess.