

Alexander Ochs

Computer Scientist

Personal Information

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Driving License	Class B
References	https://alexander-ochs.dev

Languages

German	■■■■■ native
English	■■■■□ fluent

Programming Languages

ARM-Assembler	C++
HTML / CSS	PHP / MySQL
Java	Python

Tools

Android Studio	Arduino IDE
Atlassian Jira & Confluence	Autodesk Tinkercad
GIMP	git / github
LaTeX	Linux: Ubuntu, Debian, Manjaro
LoRaWAN via The Things Network	MS / Libre Office
Nextcloud	Ultimaker Cura / PrusaSlicer
Wordpress	

Projects

2021	Design, construction and operation of autonomous CO2 sensors <ul style="list-style-type: none">• Based on an ESP32 microcontroller with an OLED display and a MH-Z19B CO2-sensor.• Readings via the display and connected over WiFi.• Software written with the esphome framework.• Custom 3d-printed case.• Sold a small series of about 10 units to private customers.• Further development of the module of the Bachelor-Thesis.
2020	Bachelorarbeit: Bau einer Funksensoranlage zur Messung und Auswertung von Innenraumluf <p>“Bachelor-Thesis: Construction of a wireless sensor system for measurement and evaluation of indoor air”</p> <ul style="list-style-type: none">• Based on Arduino MKR WAN 1300 with integrated LoRaWAN radio.• Airquality-Sensor Bosch BME680.• Software written in C++ with Arduino IDE.

Work Experience

11/2020 – now	IBM MQ Engineer ABK Systeme GmbH, Dreieich <ul style="list-style-type: none">• Expanding internal and customer MQ Infrastructure (Industry / Bank customers).• Administrating, monitoring and troubleshooting of test and productive MQ environments.• Connecting Queues to further processing software, such as internally used payment platforms and configuring of it. Furthermore: <ul style="list-style-type: none">• Linux-Server administration, including Webserver.• Building and monitoring of a CO₂ sensor infrastructure for each office of the company.• Maintaining and operating of an Ultimaker 3D printer.
08/2018 – 10/2020	Working Student Blockchain Developer ABK Systeme GmbH, Dreieich <ul style="list-style-type: none">• Creating Smart Contracts for the IBM Hyperledger Blockchain platform.• Project coordination with the partner company to connect all Blockchain nodes over and building an Web Application.• Presenting the blockchain application to customers.
07/2017 – 07/2018	Working Student Android App Developer ABK Systeme GmbH, Dreieich <ul style="list-style-type: none">• Programming an Android App in a team.• Testing and debugging of the software with different devices.

11/2015 – 06/2017	Working Student IT Pixelgenau Consulting GmbH, Frankfurt am Main <ul style="list-style-type: none"> • Working with customer data, databases and Typo3. • Creating web pages according to the clients' requests. • SEO and online advertisement for customers.
2012 – 2015	Tech Blogger AppDated.de <ul style="list-style-type: none"> • Writing articles and tests about new smartphones and tablets. • Visiting international fairs and create YouTube videos. • Administration of the Wordpress website.

Education

2014 – 2020	B. Sc. Informatik – mobile Anwendungen Frankfurt University of Applied Sciences <i>Final Grade: 1,6</i> Bachelor of Science "Computer Science – mobile Applications"
2010 – 2013	Informatik Hochschule Darmstadt "Computer Science"
2009	Abitur Nell-Breuning-Schule, Rödermark