

Martin Haensch

📍 Menlo Park, CA
✓ Eligibility: Eligible to work in the U.S.
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SUMMARY

Hi! I am a determined, reliable and dedicated Full Stack Software Developer, equipped with a Bachelor's degree, 5+ years of professional experience, a strong German accent, an unrestricted US work permit, and an unstoppable motivation to make the world a better, safer, and more connected place. I have recently relocated to the Bay Area and am therefore now looking for new professional challenges and development opportunities here.

EDUCATION

University of Applied Sciences Mittelhessen (THM) **Giessen, Germany** **10/2014 - 05/2018**
• **Degree:** Bachelor of Engineering (Major: Electrical and Information Technology & Automation Engineering)

CERTIFICATES

Algorithms and Data Structures, Web Development, Databases, Front-End Engineer, Design Patterns

WORK EXPERIENCE

Fullstack Software Developer **In cooperation with TeDatCo GmbH, Germany** **05/2018 - 11/2020**

smart.ModorCorrente (<http://cloudswitching.de>): Cloud-based PLC controlling system (smart home for industrial purposes)

- *The idea to develop this product was based on my bachelor thesis. The product development was sponsored by the company TeDatCo GmbH, where I acted as a software engineer and business partner during this time.*
- *I was responsible for the product from concept to production (front- & backend programming), including the following tasks:*
 - Programming a functional PLC (Siemens S7-1200) which connects to an external server (SCL in TIA-Portal)
 - API programming to handle connections between the database and the PLC (C#)
 - Programming a customer friendly website to control PLC outputs (PHP, HTML, CSS, JavaScript)
 - Handling database structures (MongoDB) & active documentation of the processes
 - Training and managing new staff with diverse professional backgrounds (e.g., sales).
 - **Impact (success parameters):** Originally developed for renewable energy facilities, *smart.ModorCorrente* launched on the German market in 2019 and optimizes maintenance while **reducing downtime by up to 100%** for customers in various industries. Reported savings from current customers **up to 600k Euros**.

Utilized: JavaScript, HTML, CSS, AJAX, Bootstrap, PHP, C#, MongoDB, TIA Portal, TCP/IP, Git

Automation Engineer **TeDatCo GmbH, Germany** **10/2015 - 04/2018**

ModorCorrente (www.modorCorrente.de): System to remote control renewable energy facilities (e.g., wind, solar)

- PLC Programming, Human Machine Interface (WinCC) & configuration of controls networks (e.g., Ethernet, fieldbus)
- Planning and installing control systems for renewable energy components (e.g., wind turbines)
- Preparing technical drawings and handling circuit diagrams
- Wiring electrical components, mounting control cabinet including on-site troubleshooting, electrical test equipment

Utilized: TIA Portal, SPlan, Network technologies, Antenna technology, GSM, Bus Protocols, Glass fiber technologies, HMI

Data Analyst **Philipps University Marburg, Germany** **01/2017 - 01/2018**

- Preparing and processing physiological data sets for medical research staff

Utilized: Python, MS Excel, VBA, Matlab

Vocational Training / Office Manager **PMCS GmbH & Co. KG, Germany** **08/2009 - 06/2012**

Military Service (Joint Medical Service) **German Military, Germany** **07/2007 - 05/2009**

OTHER PROJECTS

"Bartists" (in progress): Platform to connect bars and artists

- Full stack web development project including frontend, backend, and design

Utilized: JavaScript, HTML5, CSS3, React, PHP, Laravel, MySQL

"Plantguard" (smart home application): Controller to water plants automatically

- Programming a NodeESP-Board with sensors and actors to water plants automatically

Utilized: Arduino Software, C

SKILLS

JavaScript, HTML5, CSS3, React, PHP, C#, MySQL, MongoDB, Laravel, Python, Node.js, Git