

# Martin Haensch, B.Eng.

Menlo Park, CA  
✓ Eligibility: Eligible to work in the U.S.  
Personal website: <https://mhansch.com/>

+1 (650) 223-3141  
haenschmartin@gmail.com  
<https://www.linkedin.com/in/martin-haensch/>

## SUMMARY

I am a motivated, reliable, and dedicated German automation engineer and a full stack software developer with 4+ years of professional experience. I successfully launched my first self-developed industrial smart home web application "smart.ModorCorrente" on the German market in 2019. Since I recently moved to the US I am now looking for new professional challenges and development opportunities as a Software Engineer in the Bay Area.

## SKILLS

PHP, C#, Python, HTML5, CSS3, JavaScript, Git, Visual Basic, Vue.js, Laravel, SQL, NoSQL, NodeJS, React

## CERTIFICATES

Algorithms and data structures, Web Development, Databases, Front-End Engineer, RESTful WebAPIs, Design Patterns

## EDUCATION

**THM, Germany** **University of Applied Sciences Mittelhessen** **10/2014 - 05/2018**

- **Degree:** B. Eng. (Electrical and Information Technology / Automation Engineer)

## WORK EXPERIENCE

**Entrepreneur & Software Engineer** **In cooperation with TeDatCo, Germany** **05/2018 - 08/2020**

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

- smart home for industrial purpose I developed from scratch including the following tasks:
- Developing and programming of a functional PLC that connects to an external server with minimal data usage
- Designing of external interfaces to manage the connections of the external PLCs
- Administering and organizing No-SQL database relationships between multiple clients
- Programming a customer-friendly website to control PLC outputs and display current data
- Managing and documenting the entire project including training external staff
- **Product information:** Product launched in the German market in 2019, it optimizes maintenance while **reducing downtime up to 100%**. Reported **savings from current customers up to 600k Euro**.

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

**Electrical Engineer** **TeDatCo GmbH, Germany** **05/2018 - 08/2020**

ModorCorrente ([www.modorCorrente.de](http://www.modorCorrente.de)): System for remote control for renewable energy (wind, solar)

- Planning and installing control systems for renewable energy components (e.g., wind turbines)
- Creating networks for communication of diverse components (Ethernet, fieldbus)
- Splicing of glass fibres (9µm – 62,5µm) inclusive attenuating measurements of glass fibres
- Preparing technical drawings and Handling circuit diagrams
- Mounting control cabinet including on-site troubleshooting
- PLC Programming (Siemens S7-Series)

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

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

- Preparing and processing physiological data, e.g. with excel
- Scripting and facilitating data management for research staff

**Utilized:** MS Excel, VBA

**Student Trainee** **TeDatCo GmbH, Germany** **10/2015 - 05/2018**

Energy Timetable: VBA programmed automatic timetable.

- Programming of a VBA-Excel application for a large industrial food retailer ([www.gemuese-meyer.de](http://www.gemuese-meyer.de))
- The application automatically creates an energy timetable

**Utilized:** MS Excel, VBA

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

**Military Service (First-Aid Department)** **German Military, Germany** **07/2007 - 05/2009**

## PRIVATE PROJECTS

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

- Full stack web development project including frontend, backend and the design
- Utilized:** HTML, CSS, JavaScript, Vue.js, 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