

Martin Haensch, B.Eng.

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

+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 in the field of renewable energy systems. I successfully launched my first self-developed PLC control web application "smart.ModoCorrente" on the German market in 2019. I recently moved to the US and am now looking for new professional challenges and development opportunities as a Software Engineer in the Bay Area.

EDUCATION

THM, Germany	University of Applied Science Mittelhessen	10/2014 - 05/2018
<ul style="list-style-type: none">• Degree: B. Eng. (Electrical and Information Technology)• Major: Automation Engineering• Programming Coursework: Algorithms and data structures, Web Development, Databases		

RELEVANT WORK EXPERIENCE

Entrepreneur & Software Engineer	In cooperation with TeDatCo, Germany	05/2018 - 08/2020
smart.ModoCorrente (http://cloudswitching.de): Web-based PLC controlling system		
<ul style="list-style-type: none">• Documenting and managing the entire project including training external staff• Developing and programming of a functional PLC (S7-1200) that connects to an external server with minimal data usage• Designing and programming of external interfaces to manage the connections of the external PLCs and to receive data• Administering and organizing No-SQL database relationships between multiple clients• Programming a customer-friendly website to control PLC outputs and display current data• General Information: Launched in the German market in 2019, the product optimizes maintenance while reducing wind turbine downtime		
Utilized: HTML, CSS, JavaScript, AJAX, PHP, C#, MongoDB, TIA Portal, SCL, TCP/IP, Git		

Electrical Engineer	TeDatCo GmbH, Germany	05/2018 - 08/2020
ModoCorrente (www.modoCorrente.de): System for remote control for renewable energy (wind, solar)		
<ul style="list-style-type: none">• Planning and installing control systems for renewable energy components (e.g., wind turbines)• Preparing technical drawings and Handling circuit diagrams to ensure projects fit regulations and customers' expectations.• Designing of PLCs (S7-1200), selection of electrical components, wiring and testing of functionality• Mounting control cabinet including on-site troubleshooting		
Utilized: TIA Portal, SPlan, MS Visio, Antenna technology, GSM, Bus Protocols, Glass fiber technologies		

External Data Analyst	Philipps University Marburg, Germany	01/2017 - 01/2018
<ul style="list-style-type: none">• 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	05/2018 - 08/2020
Energy Timetable: VBA programmed automatic timetable.		
<ul style="list-style-type: none">• Programming of a VBA-Excel application for a large industrial food retailer (www.gemuese-meyer.de)• General information: The application automatically creates an energy timetable; this is necessary in Germany for large companies to insure the grid stability		
Utilized: MS Excel, VBA		

PRIVATE SOFTWARE 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

SKILLS

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