

# Martin Haensch, B.Eng.

Menlo Park, CA

✓ Eligibility: Eligible to work in the U.S.

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## 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

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

## RELEVANT WORK EXPERIENCE

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

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

<b>External Data Analyst</b>	<b>Philipps University Marburg, Germany</b>	<b>01/2017 - 01/2018</b>
<ul style="list-style-type: none"><li>Preparing and processing physiological data, e.g. with excel</li><li>Scripting and facilitating data management for research staff</li></ul>		
<b>Utilized:</b> MS Excel, VBA		

<b>Student Trainee</b>	<b>TeDatCo GmbH, Germany</b>	<b>10/2015 - 05/2018</b>
Energy Timetable: VBA programmed automatic timetable.		
<ul style="list-style-type: none"><li>Programming of a VBA-Excel application for a large industrial food retailer (<a href="http://www.gemuese-meyer.de">www.gemuese-meyer.de</a>)</li><li><b>General information:</b> The application automatically creates an energy timetable; this is necessary in Germany for large companies to insure the grid stability</li></ul>		
<b>Utilized:</b> MS Excel, VBA		

<b>Vocational Training / Office Manager</b>	<b>PMCS GmbH &amp; Co. KG, Germany</b>	<b>08/2009 - 06/2012</b>
<b>Military Service (First-Aid Department)</b>	<b>German Military, Germany</b>	<b>07/2007 - 05/2009</b>

## PRIVATE PROJECTS

<b>"Bartists"</b> (in progress): Platform to connect bars and artists		
<ul style="list-style-type: none"><li>Full stack web development project including frontend, backend and the design</li></ul>		
<b>Utilized:</b> HTML, CSS, JavaScript, Vue.js, PHP, Laravel, MySQL		
<b>"Plantguard"</b> (smart home application): Controller to water plants automatically		
<ul style="list-style-type: none"><li>Programming a NodeESP-Board with sensors and actors to water plants automatically</li></ul>		
<b>Utilized:</b> Arduino Software, C		

## SKILLS

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