

# CommAgility **HARDWARE ENGINEER**

**Job title:** Hardware Engineer

**Department:** Hardware Engineering

**Reports to:** HW Team Leader

**Responsible for:** None

**Job purpose:** To be an active member of the Hardware Engineering team designing hardware for projects undertaken by CommAgility. The Hardware Engineering role requires an adaptable personality and a keen attitude to learn.

## **Main duties and key responsibilities:**

- Hardware team member; working as part of a team to design hardware for company projects.
- Contribute to alternatives and feasibility studies.
- Formulate test plans and perform hardware verification testing.
- Provide hardware assistance to the software team during their development process.
- Follow company core processes.
- Any other duties commensurate with the role, as may reasonably be requested by the line manager.

Please note the purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility entailed.

Start Date: 1<sup>st</sup> October

This position is based in Loughborough, UK.

To apply, please email your CV to [jobs@commagility.com](mailto:jobs@commagility.com)

## **Special conditions:**

N/A or There are no unusual working hours except in rare cases to complete work. The same rare condition may cause restrictions on holiday, call-out liability or significant travel.



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Essential	Desirable
<b>Qualifications and training</b>	
<ul style="list-style-type: none"> <li>• Upper second-class BSc/BEng degree in field of electronic engineering</li> <li>• Signal integrity and PCB design training</li> </ul>	<ul style="list-style-type: none"> <li>• MSc or MEng Electronic &amp; Electrical Engineering</li> <li>• EMC testing training</li> </ul>
<b>Experience and knowledge</b>	
<ul style="list-style-type: none"> <li>• Previous work in the Engineering sector with a focus on embedded hardware design</li> <li>• Knowledge of digital principles</li> <li>• Digital and analog circuit board design</li> <li>• Understanding of certain laws: Shannon's, Nyquist's, etc</li> <li>• Knowledge of RLC circuit characteristics</li> <li>• Knowledge of transmission line theory</li> </ul>	<ul style="list-style-type: none"> <li>• Design experience with TI or NXP DSPs and Xilinx FPGAs</li> <li>• Experience with Mentor Graphics toolchain</li> <li>• Knowledge of manufacturing and assembly practices</li> </ul>
<b>Skills and abilities</b>	
<ul style="list-style-type: none"> <li>• Self-reliant to research around subject as required</li> <li>• Good written communication skills</li> <li>• Ability to read technical specifications and datasheets</li> <li>• Use own initiative and work well as part of a team with a flexible approach</li> <li>• Ability to prioritise tasks and work under pressure to meet deadlines</li> <li>• Soldering and hardware modification</li> </ul>	<ul style="list-style-type: none"> <li>• Root cause analysis and analytical skills</li> <li>• Presentation skills</li> <li>• Embedded programming ability in C</li> <li>• Scripting in Python</li> <li>• Use of source control tools such as GIT</li> <li>• Use JIRA bug tracking tool or similar</li> </ul>
<b>Other requirements</b>	
<ul style="list-style-type: none"> <li>• A willingness to undertake further relevant training</li> <li>• An understanding and commitment to equal opportunities</li> </ul>	<ul style="list-style-type: none"> <li>• An interest in electronics either demonstrated through project or hobby work</li> </ul>