

Personal details

Name
Michael Burton

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London, United Kingdom

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Core competencies

Mechanical engineering

Computer-aided design

Design engineering

Quality assurance

Education

Master of Engineering in
Mechanical Design and
Engineering Management
University of London, UK, 2021

Bachelor of Engineering in
Mechanical Engineering
University of London, UK, 2016

Technical Proficiencies

SolidWorks, Fusion 360, Autodesk
Inventor, AutoCAD, MATLAB,
Abaqus, Google Workspace, and
Microsoft Office Suite.

Michael Burton

Qualified Mechanical Engineer with a Master of Engineering in Mechanical Design and Engineering Management. Creative problem solver, adept at collaborating with teams and key stakeholders to collect requirements and identify tasks. Swift learner, proficient in cultivating positive relationships and known for solid team collaborations while consistently delivering on time.

Work Experience

Mechanical Engineer 2020 - Present
RK Engineering, UK

Apply design thinking and strong problem-solving skills to support professionals throughout each stage, from research to design and development, through to installation and final commissioning. Prepare design drawings, documents, material specifications, and product reports for both team and clients. Evaluate final performance, reliability, and safety while proactively addressing, modifying, and updating designs.

- Designed Printed Circuit Board (PCB) for semiconductor products with ranges up to 40 GHz in collaboration with electrical engineers.
- Created a stable burn in PCB that could handle a part at 200 degrees Celsius.
- Produced Bill of Materials (BOMs) fixtures and detailed assembly drawings for manufacturing.

Production Operator 2018 - 2020
Ideal Ltd., UK

Operated complex machinery to assist with assembling, manufacturing, processing, and packaging of high-quality timbers for structural and non-structural purposes. Coordinated production activities and carried out routine quality control checks to measure product quality parameters such as modulus of rupture, modulus of elasticity, and moisture content by utilising both NDT and DT (non-destructive and destructive tests).

- Led preventative maintenance checks on process lines, reducing downtime.
- Co-implemented new process design and modified standard operating procedures.

Internship

Graduate Mechanical Engineer 2016 - 2018
ENG Design Partnership Ltd, UK

- Instrumental in assisting Senior Mechanical Engineer to design and model one section of the hot and cold-water reticulation for a large-scale multidisciplinary project.
- Received positive recognition for well-designed drawings on AutoCAD and was selected to present to a client.