

Senior Electronics Engineer

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Company: Muddy Machines

Location: London

Category: other-general

About Muddy Machines

Muddy Machines is an award winning AgTech start-up tackling some of the world's biggest challenges: a growing population to feed, a changing climate and food shortages.

Our mission is to help farmers become resilient against labour shortages in a sustainable way. We are building a multi-purpose robotic platform we affectionately call Sprout which we provide to farmers as a service (Robotics as a Service).

Sprout's first harvest tool is a Green Asparagus harvester given that crop's high value per kilo and high reliance on farm labour - but we are just getting started! More tools are in the pipeline.

Joining our collaborative and supportive team means being a part of an effort that helps farmers, protects the environment, and contributes to the creation of more sustainable food production for us all.

About the role

We are looking for a highly skilled and motivated Senior Electronics Engineer who is excited about the opportunity to own the electronics systems of our field robot and harvesters.

This is a unique opportunity to use your experience to push the boundaries of robotics products in the agriculture industry and, in doing so, become an integral part of Muddy Machines.

This is primarily an on-site role due to the nature of the work.

Requirements

Key Responsibilities:

Own the electronics architecture and sub-systems of our autonomous light electric vehicle, robotic harvesters, charging infrastructure and communication stations

Support, maintain and improve our current robotic Mk.III fleet, which are used as demonstrators and development platforms

Take a leading role in the specification, requirements capture and design of production-ready, scalable robotic system

Design and integrate electronic systems, including sensors, cabling, control systems, and power management modules

Collaborate with internal cross-functional teams (mechanical engineers, software engineers, etc) and create strong relationships with key external suppliers

Help with robot assembly, conduct testing, validation, and troubleshooting of electronic systems to ensure performance and reliability at our workshop and at customer farms

Document designs, specifications, test procedures, and results for internal and external stakeholders

Champion electronics best practice: create internal design guides and implement safe handling procedures in the workshop alongside the workshop manager

Stay updated with industry trends and emerging technologies to propose innovative solutions and improve system performance

Requirements:

Bachelor's, Master's or equivalent degree in Electrical Engineering, Electronics Engineering, or related field

Proven experience (5+ years) in a fast-paced electronics design, development, and testing environment

Proficiency in PCB design, harness design and simulation software

Experience in PCB firmware and bring-up using C/C++

Experience with communication protocols such as UART, SPI, I2C, CAN, USB, Ethernet,

and wireless technologies (Bluetooth, Wi-Fi, LoRa)

Familiarity with power electronics, motor control, sensor integration, and real-time embedded systems

Excellent problem-solving abilities, attention to detail, with clear and understandable communication

Ability to work independently and as part of a team, manage multiple tasks, and thrive in a fast-paced environment

Desirable experience:

Experience in robotics, wiring harnesses, automotive or similar industries

Preferably Altium specific experience and (SPICE, LTspice)

Expertise in Process Control development for internal and external use

PCB test jig development for production (boundary scan, bed of nails)

Expertise in power electronics (systems with current in excess of 100Amps)

High-speed digital design experience

Willingness to mentor more junior Engineers

Driving license and car (handy for when working at a farm site)

Remember, this is just a guide, if you don't know about all of the above, but the idea of learning about them excites you then please apply!

Benefits

Stock options: We offer generous shares in the company to ensure that everyone feels a sense of ownership and motivation to contribute to the success of Muddy Machines. You'll be rewarded for your hard work in helping us reach our collective goals.

Vitality Private Medical Insurance We prioritise the well-being of our team by providing comprehensive private medical insurance, which includes mental health care cover. We recognise that a healthy and happy workplace leads to increased productivity and

is a win-win for all! See associated benefits

Flexible working: We value the lives of our team and understand the need for work-life balance. By offering flexible working arrangements, we aim to make the transition between work and personal life as seamless as possible. We will consider all requests so please tell us what works best for you.

Pet-friendly workplace: Well-behaved 4-legged friends do come and join us in the office on occasion.

Our Interview Process:

- 1 . Submit your CV and answer the questions on the application form
- 2 . If you are successful at this stage, we'll arrange an initial phone/video call where one of the team will explain the position, introduce Muddy Machines and get to know a little bit more about you (30 minutes)
- 3 . Technical video call interview (1 hour)
- 4 . Successful candidates at this stage will then be invited to an on-site interview, including hands-on activity, meeting some of the team with tea/coffee, and a meeting with our founder (2.5 hours)

At Muddy Machines, we have a unique opportunity to ensure our teams are diverse and inclusive from day one. We know outstanding results occur when unique individuals from diverse backgrounds come together and this is something we are keen to cultivate as our company grows. We welcome candidates from every community. We treat every employee equally and fairly regardless of age, disability, gender, marital status, race, religion, or sexual orientation. It is vitally important that each of our team members feels confident, comfortable, and empowered.

Note to recruitment agencies: Muddy Machines is committed to building a long-term approach to our hiring strategy, we are therefore already working in partnership with a selected talent partner. We, therefore, ask you to hold off sending speculative CVs or sales approaches through this email.

Salary Range £50,000 to £60,000 depending on experience

Cross References and Citations:

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