**Mechatronics Engineer**

Full-Time, Singapore

**About PiezoRobotics:**

Vibrations in modern structures such as cars, robots and industrial machinery, constitute a real problem that can cause undesirable noise, diminished precision, energy loss and damages. In order to reduce these harmful effects, passive materials have been extensively used but can no longer cope with the increasing complexity of engineering systems. In this sense, novel smart structures, which benefit from precision mechanics, sensors, actuators and electronic controllers, have been created to efficiently suppress vibrations without notable adverse effects.

PiezoRobotics is a deep tech engineering start-up specialized in the design and manufacturing of vibration technologies based on smart piezoelectric materials. We create solutions in active vibration control and vibration condition monitoring for the sectors of Advanced Manufacturing, Transportation and IoT Sensors. We are looking for a passionate, talented and hands-on Mechatronics Engineer to join our team in Singapore. Come shape the future of engineering with us!

**Your Responsibilities:**

- First, you will receive an on-the-job training, to get to know our projects and familiarize yourself with our technical capabilities and know-how.
- Later on, you will be responsible for conceptualizing, designing and testing mechatronic systems (mechanics + electronics + software) for structural vibration control in different applications.
- As part of our team, you will contribute to the generation of new ideas and the development of advanced technologies. You should be able to understand the customer’s needs and translate technical requirements into product design and components selection.
- Differently from engineering in large enterprises, you will have the opportunity to support the team throughout the whole product development process, from ideation, simulation, prototyping and testing all the way to series production and delivery.
- You will have the opportunity to work in a fast-paced environment and will need to have good communication and teamwork with colleagues, external partners, collaborators, suppliers and customers.
- You will handle multiple projects at the same time, so you will need good attention to details, organizational practices and project management skills, such as planning and documentation.

**Your Qualifications:**

- You have a Bachelor/Master Degree in Engineering (Mechatronics, Mechanical, Electrical/Electronics, Aerospace, Robotics, Control, Automation or similar).
- You have 1-3 years of experience in similar mechatronic projects (industrial or academic).
- You have excellent knowledge of fundamental physics/engineering principles.
- You bring along advanced experience in Mechanics (Structural Dynamics, CAD, Finite Element Simulation, CNC Manufacturing and 3D Printing); in Electronics (Sensors, Instrumentation, Data Acquisition Systems, SPICE Simulation, Datasheet Reading, PCB Design, PCB Manufacturing, Soldering and Testing); and in Data Analysis and Programming (Matlab, Signal Processing Techniques, Linear Control Theory, Microcontrollers Programming, such as Arduino, Raspberry Pi and DSP).
- You are interested in start-ups, where you can contribute with disruptive ideas and take the lead in accomplishing tasks successfully.

If this description fits you and you accept the challenge, please send us per email (career@piezorobotics.com):

1) Your updated resume
2) Your university transcripts
3) A recommendation letter from your references (former industrial or academic supervisors)

This is a full-time entry-level position for immediate start, open to Singaporeans/PRs only.

05-May-22