MECHATRONICS ENGINEER

THE COMPANY

August Robotics is a start-up company which builds **bespoke robotic solutions** to augment and **enhance the day-to-day lives** of ordinary people.

We believe that over the next generation, **bespoke robotic assistants** will become ubiquitous in people's day-to-day lives, and August Robotics aspires to be at **the forefront of this "robotics revolution".**

August Robotics was founded in Australia by Alex Wyatt, and now has presences in **China** (Hong Kong and Shenzhen) and **Australia** (Melbourne).

THE ROLE

As a Mechatronics Engineer, you will be a member of **August Robotics' founding technical team** in Shenzhen. This role is a rare opportunity for **technical candidates** looking to "get in at the ground floor" of a robotics start-up with **extremely ambitious goals** for the future.

The Mechatronics Engineer will work in a hands-on environment with advanced technologies. Responsibilities of the Mechatronics Engineer would be to:
- Work with the technical team **to conceptualize, define, design, build, and test** the architectural layout, new parts and assemblies for the robot prototypes
- **Create concept drawings** using 3D CAD models and **search out materials**, **components and systems** for the robot prototype
- Ensure compatibility between the electrical elements of each prototype (circuits, power sources, etc..) with the design of the robot's software and chassis
- Develop the robot prototypes by **fabricating design iterations** and **integrating off the shelf technology / electro-mechanical parts** using a variety of tools
- Collaborate with the technical team to design and run experiments to test concepts and prototypes
- **Upgrade** prototypes and **debug** electro-mechanical interfaces
- Contribute to the team's software development and coding efforts

The role will be based in August Robotics' office in **Shenzhen, China**.

YOUR SKILLS

You must show:
- Degree from **a top-tier University** in China (must be a 985 university, ideally a C9 university) or overseas in Mechatronics or Mechanical, Electrical or Controls Engineering, or a related discipline
- An understanding of **robot kinematics and dynamics**, **wireless communication**, **circuit boards** (Arduino, etc.)
- Proficient in **SolidWorks, AutoCAD** or equivalent designing tools
- An ability to work with machine tools, electronic circuits and boards, motors and wheels and integrate them with the front end of the stack
- Familiarity with **integrating hardware, software and electromechanical interfaces**
- Familiarity with general functionality and constraints of the various types of **sensors** typically used in developing consumer electronics and/or robots
- Native level fluency in Mandarin Chinese (spoken **English is NOT required** for this role)

Helpful not not required:
- Familiarity with **indoor localisation technologies** (eg. LIDAR, VSLAM), robotic arms (drive, orientation, speed, etc…), robot motion and computer vision
- Some programming experience in Python, ROS (Robot Operating System) or a similar language / environment

While not necessary, you may have **1-2 years work experience** as a **mechatronics engineer**. For fresh graduates, you must have **worked on or developed a project that showcases your mechatronics skills in the past 12-18 months** (as part of your university project, internship or own project).

You should be **comfortable with ambiguity** and excited by the idea of working in an entrepreneurial culture. You should be willing to jump in and lend a hand on a range of different issues when the need arises.

HOW TO APPLY

An attractive remuneration package will be available to qualified candidates. To apply, please send your CV and cover letter to tech.recruiting@augustrobotics.com.

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