

Appttronik is building robots for the real world to improve human quality of life and to help solve the ever-increasing labor shortage problem. Our team has been building some of the most advanced robots on the planet for years, dating back to the DARPA Robotics Challenge. We apply our expertise across the full robotics stack to some of the most important and impactful problems our society faces, and expect our products and technology to change the world for the better. We value passion, creativity, and collaboration to help us overcome existing technological barriers in the industry to create truly innovative products. You will join a team developing state-of-the-art general-purpose robots designed to operate in human spaces and with human tools. It is designed to work alongside humans, mobilize to human spaces, and manipulate the world around it.

JOB SUMMARY We are seeking a mid-level mechanical engineer to join our team. The ideal candidate will support the design, analysis, and prototyping of robotic systems and related components. This role requires experience in mechanical modeling using CAD software (Ideally Onshape), finite element analysis (FEA), and knowledge of standard manufacturing techniques. The candidate will contribute to the development of innovative robotic solutions through rapid prototyping, 3D printing, and mechanical analysis.

ESSENTIAL DUTIES AND RESPONSIBILITIES or KEY ACCOUNTABILITIES Well acquainted with robotics research and development. Develop mechanical designs and create 3D models using Onshape from concept to production. Conduct finite element analysis (FEA) to assess structural integrity and performance. Perform engineering analysis, including stress, thermal, and kinematic studies. Utilize rapid prototyping techniques such as 3D printing for concept validation and testing. Work closely with cross-functional teams, including electrical and software engineers, to integrate mechanical systems. Prepare detailed engineering drawings and documentation for manufacturing. Apply knowledge of standard manufacturing processes, including CNC machining, injection molding, sheet metal fabrication, casting, and additive manufacturing. Participate in design reviews, troubleshooting, and iterative prototyping. Support testing, validation, and implementation of mechanical components in robotic systems. Ensure compliance with relevant industry standards and best practices.

SKILLS AND

REQUIREMENTS Proficiency in CAD software (Onshape preferred) Experience with FEA tools for structural, thermal, and mechanical analysis. Strong analytical skills for evaluating mechanical performance and optimizing designs. Hands-on experience with 3D printing and rapid prototyping techniques. Knowledge of standard manufacturing methods and materials. Experience in robotics, including mechanical actuation, kinematics, and integration. Ability to interpret technical drawings, GD&T, and tolerance stack-ups. Strong problem-solving skills and attention to detail. Effective communication and teamwork abilities.

EDUCATION and/or EXPERIENCE Bachelor's degree (or higher) in Mechanical Engineering or a related field. At least 3+ years of experience in mechanical design, analysis, and prototyping, preferably in the robotics industry.

PHYSICAL REQUIREMENTS Prolonged periods of sitting at a desk and working on a computer. Must be able to lift 15 pounds at times. Vision to read printed materials and a computer screen. Hearing and speech to communicate effectively. This is a direct hire. Please, no outside Agency solicitations. Apptronik provides equal employment opportunities to all employees and applicants for employment and prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state or local laws.