

H3 - Career Exploration via Handshake

Job Title	Requirements/Skills Sought	My Current Skills
Robotic Software Engineer (Sahay AI)	<ul style="list-style-type: none"> • Bachelor's Degree in CS, Engineering, Statistics, or related field • 3+ years experience with Python and C++ software development • Robotics hardware/software integration and sensor data processing • Experience with ROS/ROS2 • AWS experience (EC2, S3, Lambda, SQS) • Experience with robotics systems, simulation, or embedded development • Ability to design scalable system architecture • Strong collaboration and independent problem-solving ability 	<ul style="list-style-type: none"> • Experience with Python and Java programming • Arduino workshop experience (microcontroller programming and hardware integration) • Hands-on robotics exposure through SWE and SHPE project teams • Comfortable using GitHub for version control • Strong teamwork, communication, and project coordination skills
Robotics Engineer (Sunnyvale, CA)	<ul style="list-style-type: none"> • BS/MS in CS, Software Engineering, or related field • Strong Python programming for sensor control • Experience with open-source robotics libraries • Strong technical communication and analytical skills • Ability to deliver software meeting high quality and testing standards • Self-directed work ethic and proactive learning 	<ul style="list-style-type: none"> • Python programming experience • Team collaboration and leadership through SWE Treasurer role • Basic robotics integration experience (RC boat and RC airplane projects) • Strong communication and project planning skills
Mechanical / Mechatronics Engineer (Entry Level)	<ul style="list-style-type: none"> • BS/MS in Mechanical, Mechatronics, or Systems Engineering • Proficiency in SolidWorks and mechanical design principles • Ability to produce 2D/3D technical documentation 	<ul style="list-style-type: none"> • CAD/3D modeling exposure from robotics team involvement • Project planning and documentation experience in SWE • Strong teamwork and

	<ul style="list-style-type: none"> • Collaboration and technical communication skills • Interest in rapid prototyping (CNC, machining) • Understanding of UAS/UGV/ROV systems 	<p>willingness to learn new technical tools</p> <ul style="list-style-type: none"> • Early familiarity with mechanical systems via hands-on projects
Robotics & AI Engineer (Entry Level, Tata Consultancy Services)	<ul style="list-style-type: none"> • MS in Robotics, CS, Electrical, or Mechanical Engineering • Strong programming fundamentals (Python, C++, etc.) • Familiarity with AI/ML frameworks and simulation tools • Analytical thinking, collaboration, adaptability 	<ul style="list-style-type: none"> • Python proficiency and Arduino microcontroller experience • Hands-on robotics project exposure (SWE / SHPE teams) • Strong collaboration, leadership, and communication skills • Motivated to pursue further robotics coursework and industry experience
Mechanical Design Engineer (Keiser Corporation)	<ul style="list-style-type: none"> • Mechanical product design experience • Strong CAD skills (assemblies and modifications) • Excellent problem-solving and attention to detail • Interest in fitness products is a plus • FIRST Robotics or equivalent team-based build experience 	<ul style="list-style-type: none"> • CAD familiarity and iterative prototyping through RC robotics projects • Organized and detail-oriented team contributor • Passion for hands-on mechanical systems and learning-by-building • 2 years of FIRST Robotics experience
Electrical Engineer (IPS Group, Inc.)	<ul style="list-style-type: none"> • BS in Electrical Engineering • Skill in electronic board design using Altium • Ability to solder and work with circuit board components • Communication and documentation skills • Ability to troubleshoot electronics and perform rework 	<ul style="list-style-type: none"> • Arduino and microcontroller experience (basic wiring + hardware control) • Comfortable learning hardware tools and improving hands-on capability • Strong communication

	<ul style="list-style-type: none"> Team collaboration and proactive learning 	skills and proven teamwork in project settings
Electrical Engineer I (Affiliated Engineers, Inc.)	<ul style="list-style-type: none"> BSEE/BSAE degree Internship experience preferred Strong organizational and communication skills Ability to prioritize tasks Work independently or in teams 	<ul style="list-style-type: none"> Leadership and organization from SWE Treasurer role Team-based engineering experience (SWE and SHPE robotics projects) Strong time management across school, work, and extracurriculars
Automation Engineer (Pedal)	<ul style="list-style-type: none"> Python scripting for lab workflow automation Hardware integration and troubleshooting experience Clear documentation skills Familiarity with lab automation standards and data control systems 	<ul style="list-style-type: none"> Python experience Hardware control using Arduino Clear documentation and project coordination skills Comfortable collaborating across teams and learning new tools
AI Software Engineer (unitQ)	<ul style="list-style-type: none"> Familiarity with LLMs and applied AI development Strong Python and large-scale data processing experience Production-level software deployment Experience with containerization and cloud infrastructure 	<ul style="list-style-type: none"> Python proficiency and foundational understanding of AI concepts Strong problem-solving, curiosity, and willingness to learn advanced systems Organized communicator with ability to support cross-functional teams
Robotics Engineer (Richtech)	<ul style="list-style-type: none"> Experience in computer vision, embedded AI, or robotic control Proven system integration experience Deployment on embedded platforms (e.g., Jetson) 	<ul style="list-style-type: none"> Practical robotics system exposure (RC robotics projects) Programming experience (Python, Java, Arduino) Strong collaboration, project execution, and

	<ul style="list-style-type: none">• Full-cycle robotics development experience	<p>technical communication skills</p> <ul style="list-style-type: none">• Motivated to deepen embedded and computer vision skillsets
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