



KONICA MINOLTA

## Job Role

Date: 15/06/2018

<b>Title of position:</b>	Robotics R&D Engineer	<b>Reporting off he position</b>	R&D Strategy and Technology Manager
<b>Person holding position: /</b>	N/A	<b>Name of Manager</b>	Filippo Silva
<b>No. of employees:</b>	1	<b>Location</b>	Rome

<b>Function of position:</b>	<p>Konica Minolta Inc. is establishing new R&amp;D sites in EU (Konica Minolta Laboratory Europe) aimed at developing innovative technologies in the area of Information and Communications Technologies (ICT), IoT, Robotics and Artificial Intelligence.</p> <p>As part of our team, the Robotics R&amp;D Engineer will be involved in projects in the field of intelligent robotics, working on state-of-the-art research, deployment and development of Robotics and AI system. The R&amp;D Engineer will work alongside Researchers, Developers and Engineers, with a keen eye towards software development compliant to DevOps and Continuous Integration.</p> <p>This initiative is specifically targeted to speed up the growing demand for a technical expert in the domain of methodologies discovery and development with background in Robotics, Artificial Intelligence and Machine Learning..</p>
<b>Main responsibilities:</b>	<ul style="list-style-type: none"> <li>• Support the management of projects about intelligent robotics, working on state-of-the-art research, deployment and development of Robotics and AI system.</li> <li>• Embrace the resolution of a problem by following a quick methodological guess-and-check approach.</li> <li>• Implement and deploy code, technologies, tools and all that is necessary for the realization of technical proof of concepts.</li> <li>• Propose, design and implement solutions, using appropriate software development tools, methods and practices including source code repositories, issue tracking, code reviewing, code analysis, automated building, automated testing and automated documentation.</li> <li>• Work closely with a team of scientists and engineers with diverse backgrounds in areas such as Robotics, Machine Learning, Computer Vision, IoT and Distributed Learning.</li> <li>• Provide support when designing, implementing and maintaining hardware and software tools.</li> <li>• Participate in evaluation and purchase of lab facilities and equipment (e.g. software licenses, development servers, etc.).</li> </ul>



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<b>Dimension of results</b>	<ul style="list-style-type: none"><li>• Ensure solutions and PoCs being developed deliver specified requirements and the expected outcomes, in accordance with the general technology development roadmap and deadlines</li><li>• Ensure quality outcomes and encourage adherence to procedures</li><li>• Support the Research Specialist and Managers to:<ul style="list-style-type: none"><li>○ ensure that produced software/deployed methodologies meet technological and business vision and R&amp;D needs;</li><li>○ ensure that software is delivered against milestones and planned deadlines;</li><li>○ ensure software/methodologies are delivered according to R&amp;D backlog priorities.</li></ul></li></ul>
<b>Requirements to this position:</b>	<ul style="list-style-type: none"><li>• Master's Degree in Computer Science, Robotics, Electrical or Electronic Engineering (EEE) or similar</li><li>• 2-3 or more year of experience in applied robotics and related fields.</li><li>• Good knowledge of current state of the art methodologies in Robotics and AI</li><li>• Practical capabilities to use the appropriate tools for each task to ensure a fast deployment and reliability of the solutions.</li><li>• Some degree of experience with common robot OS and standards such as: YARP, ROS, H-ROS, etc.</li><li>• Fluency in Python, C++ and scripting (e.g., shell).</li><li>• Experience in software development &amp; integration in applied robotics.</li><li>• Knowledge of Git and GitFlow branching model.</li><li>• Able to carry out development and basic system configuration activities Linux.</li><li>• Integration and development of systems across diverse software and hardware platforms, multiple OSs and diverse dependency requirements.</li><li>• Fluent in English</li><li>• Willingness to travel internationally and work in a team actively contributing to team objectives.</li><li>• Passion for new technologies, innovation and robotics and love for solving exciting and challenging problems</li><li>• Knowledge of tools for agile approach: Trello, Atlassian Suite</li></ul> <p>It is a plus:</p> <ul style="list-style-type: none"><li>• Knowledge of common robotics simulation tools, such as: V-REP, Gazibo, Webots, etc</li><li>• Knowledge of the main research areas in applied robotics (planning, reasoning, navigation, perception, etc) and related approaches.</li><li>• Knowledge Deep Learning methodologies applied to problems about real world robotics.</li><li>• Understanding agile process frameworks including Scrum and Kanban.</li></ul>



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	<ul style="list-style-type: none"><li>• Experience with software development of advanced research applied to real world problems.</li><li>• Solid software design &amp; development technical skillset.</li><li>• Understanding of CI/CD infrastructure (e.g., Jenkins, Bamboo), virtualisation and containerisation (E.g., Docker, Docker Compose, Docker Swarm, Kubernetes, Weave Net, NVidia Docker), issue tracking tools (e.g., Jira) and knowledge management tools (e.g., Confluence).</li></ul>
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