

## Robotics Manipulation Developer

### Job Profile:

*The Robotics Manipulation Developer will be responsible for the software that handles planning and execution of motion of a robot arm and end-effector. The software will leverage open-source libraries and in-house developed models to achieve robust collision-free motion planning. Your contribution will be the implementation of robust robot arm path planning and its integration with other systems.*

*Your work will be a part of an integrated robot system capable of handling a wide variety of practical, real-world problems with full autonomy. You will work with a team of other developers working to integrate multiple levels of software together.*

### Scope of Responsibilities:

- *Construct simulated environments for testing robot software*
- *Implement motion planning for a robot arm using open-source software*
- *Optimize motion planning for use on an embedded system*
- *Work with a team to integrate robot arm motion planning with other system software*
- *Integrate and test software on a physical robot arm*

*Day to Day activities will include:*

- *Individual software development and problem-solving*
- *Regular progress meetings and discussions with the team*
- *Delivering reports on current status and any problems encountered*
- *Bringing to life a unique and fully-autonomous robot system*

### Accountabilities of the Position:

- *Delivery of a robot simulation for motion planning, grasping and manipulation*
- *Delivery of a robust motion planning system for a robot arm*
- *Integration of motion planning with other automation software*
- *Integration of motion planning on a physical robot*

### Qualification & Skill:

- *At least a Graduate-Level Degree in Engineering or Computer Science*
- *4+ Years of experience programming for robotic and/or embedded systems, specifically using ROS middleware*
- *Experience with implementing the MoveIt library, preferably on a physical robot*



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- *Knowledge and prior application of inverse kinematics, joint-space planning and occupancy mapping*
- *Strong programming skills in C++, C, and Python. Experience with open-source software including ROS, Gazebo, Webots and Octomap*
- *The ability to clearly communicate concepts and problems encountered in your work*
- *An interest and motivation in overcoming unique problems and challenges*

### **Company Profile:**

ANVIV Mechatronics Inc. is developing AI-Embedded Robotic Products. As a ANVIV team member you will be working with curious and inquisitive people to develop AI systems for practical robot applications. You will work on designing, developing, training and deploying a variety of AI solutions onto a mobile robot and arm systems. Utilizing your technical skills as a member of this start up company, your work will have an emphasis on robustness and real-world application. If you are interested in joining us, please submit your resume to: [John Wang \(john@anviv.com\)](mailto:John.Wang@anviv.com).

ANVIV Mechatronics Inc. welcomes all qualified candidates.