

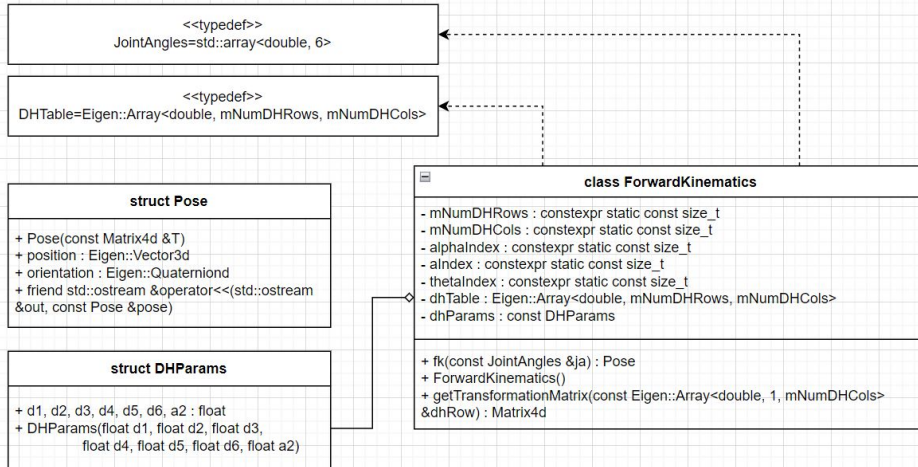
ACME Manipulator Arm Path Planning - Group 1

Jerry Pittman (117077160); Aaqib Barodawala (119348710); Vedant Ranade (119211588)

Overview

- Manipulator arm path planner that solves Inverse Kinematics (IK) for Acme.
- Systemantics India's A3C Serial manipulator as a demonstration of this solver's capabilities

Class UML Diagrams



Approach

- Vedant will be the UML/activity diagram creator and design keeper. Also the owner of the GitHub Repository.
- Jerry and Aaqib will be using pair programming swapping roles after design for implementation phase.
- C++14/17 that can be integrated with ROS2 for visual simulation.
- Ubuntu 22.04; C++ standard lib, lib-eigen

Management/ Timeline

- Implementation:
 - Forward Kinematics: 3 days
 - Inverse Kinematics: 11 days