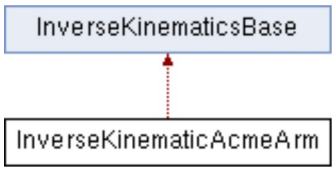
# InverseKinematicAcmeArm Class Reference

Inheritance diagram for InverseKinematicAcmeArm:




## Public Member Functions

| | |
|---|---|
| | **InverseKinematicAcmeArm** ()<br>Constructor for Inverse Kinematics Acme Arm. More... |
| virtual | **~InverseKinematicAcmeArm** ()<br>Destructor for Inverse Kinematics Acme Arm. More... |
| std::vector< JointPtr > | **computeIK** (Eigen::Matrix4d)<br>Method to compute Inverse Kinematics For the Acme Arm. More... |

## Additional Inherited Members

**Private Member Functions inherited from InverseKinematicsBase**

## Constructor & Destructor Documentation

### ◆ InverseKinematicAcmeArm()

InverseKinematicAcmeArm::InverseKinematicAcmeArm ( )

Constructor for Inverse Kinematics Acme Arm.

**Parameters**

**None.**

**Returns**

None.

### ◆ ~InverseKinematicAcmeArm()

InverseKinematicAcmeArm::~InverseKinematicAcmeArm ( ) virtual

Destructor for Inverse Kinematics Acme Arm.

**Parameters**

**None.**

**Returns**

None.

## Member Function Documentation

### ◆ computeIK()

std::vector< JointPtr > InverseKinematicAcmeArm::computeIK ( Eigen::Matrix4d Transform ) virtual

Method to compute Inverse Kinematics For the Acme Arm.

**Parameters**

**Coordinate.** A 4x4 Matrix from Eigen

**Returns**

std::vector<JointPtr> The vector of corresponding joints.

Implements **InverseKinematicsBase**.

The documentation for this class was generated from the following files:

- C:/Users/ethan/Desktop/Doxygen Environment/ENPM808X_Midterm-master/include /**InverseKinematics.hpp**
- C:/Users/ethan/Desktop/Doxygen Environment/ENPM808X_Midterm-master/app/InverseKinematics.cpp