

Implemented functions:

- **axisangle2matrix.m**

- Explanation: Takes the Euler Principal Axis and Angle and returns them as a Rotation Matrix. The Euler Principal Axis is normalized and the Euler Principal Angle has to be in degrees.
- Inputs: Euler Principal Axis, Euler Principal Angle
- Output: Rotation Matrix

- **quaternion_R.m**

- Explanation: Takes a Quaternion and returns the Rotation Matrix.
- Inputs: Quaternion
- Output: Rotation Matrix

- **Angles_R.m**

- Explanation: Takes the Euler Angles and transforms them into a Rotation Matrix.
- Inputs: yaw, pitch, roll
- Output: Rotation Matrix

- **rotvecR.m**

- Explanation: Takes a Rotation Vector and return its Rotation Matrix.
- Inputs: Rotation Vector
- Output: Rotation Matrix

- **Raxisangle.m**

- Explanation: Takes a Rotation Matrix and return its Euler Principal Axis and Angle.
- Inputs: Rotation Matrix
- Output: Euler Principal Axis and Angle

- **RotationQuat.m**

- Explanation: Takes a Rotation Matrix and return its Quaternion.
- Inputs: Rotation Matrix
- Output: Quaternion

- **EulerRotationAngles.m**

- Explanation: Takes a Rotation Matrix and return its Euler Angles.
- Inputs: Rotation Matrix
- Output: pitch, yaw, roll

- **Rvecrot.m**

- Explanation: Takes a Rotation Matrix and return its Rotation Vector.
- Inputs: Rotation Matrix
- Output: Rotation Vector