

UTHAI-Humanoid

**Kinematics Properties**

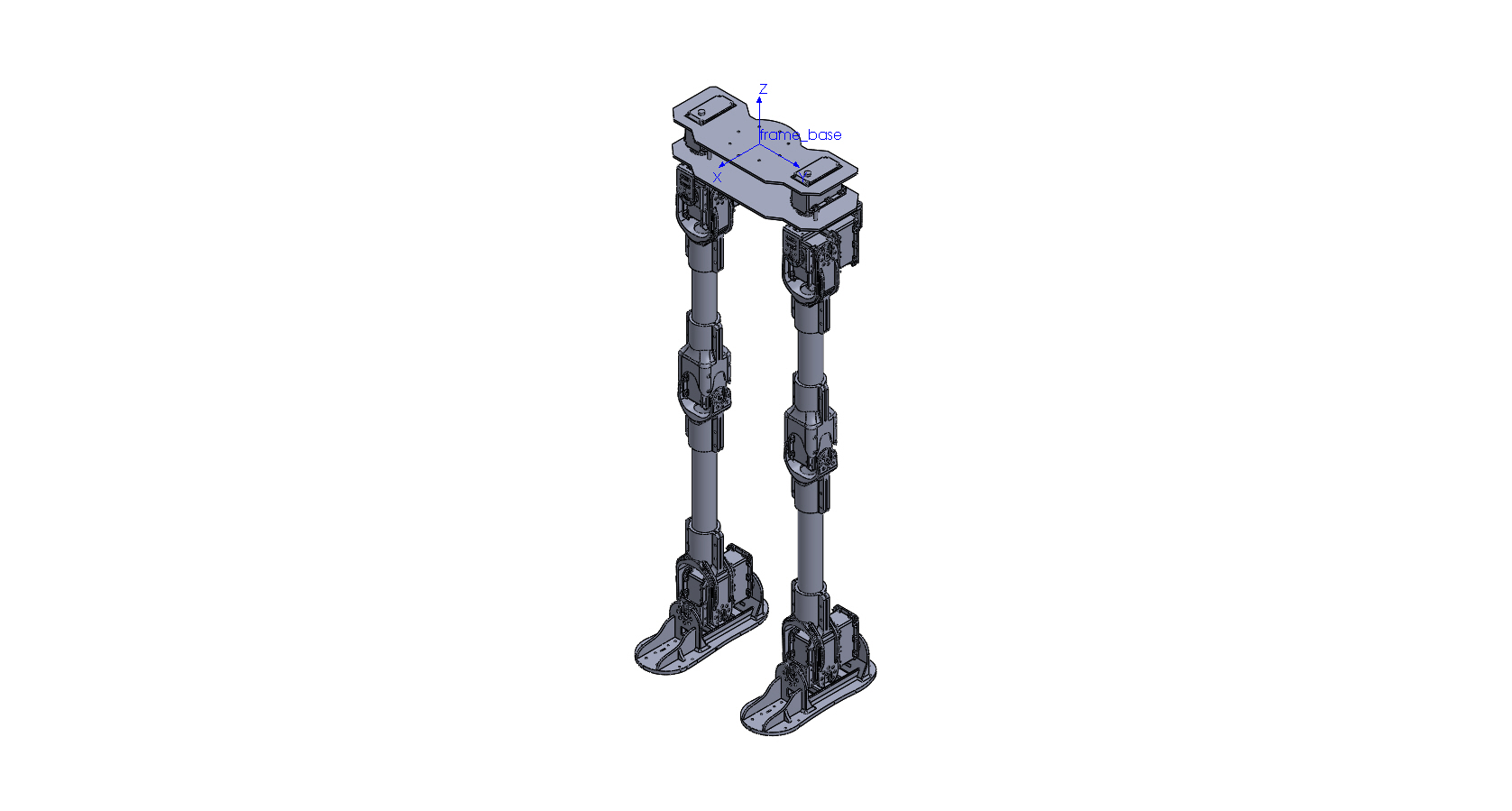
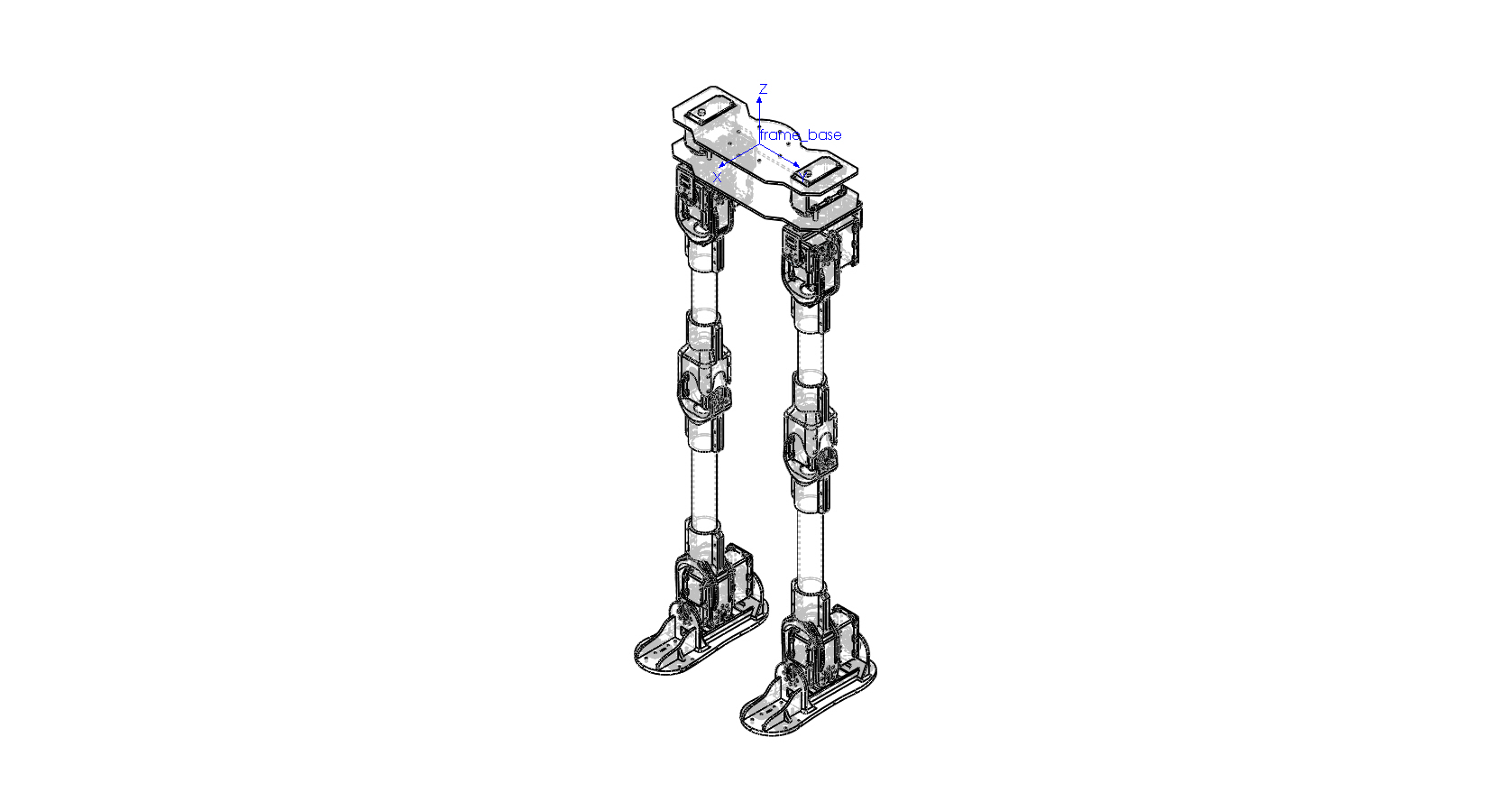
Version [0.0.1]

Modified: 2018/3/10

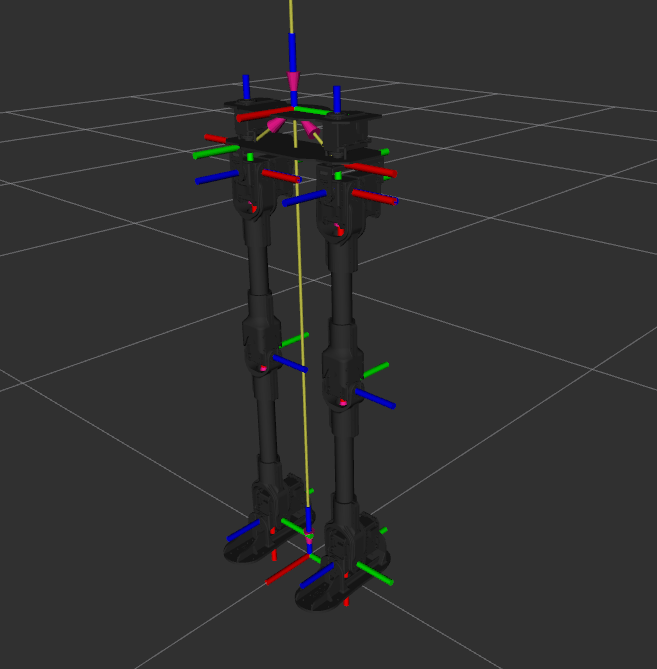
Principle authors:

Liews

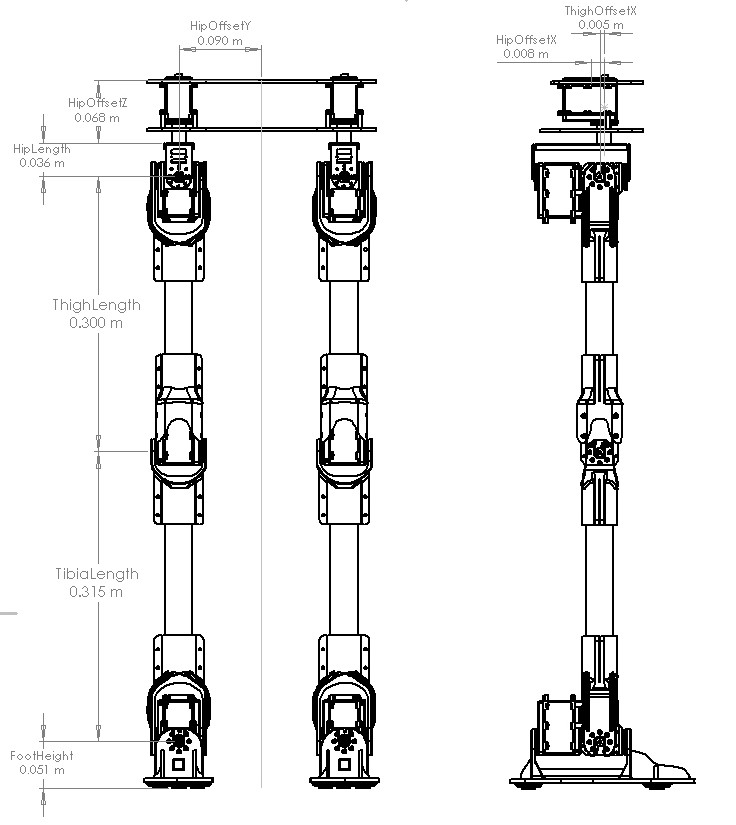
## UTHAI Humanoid



## UTHAI frames



## UTHAI Kinematics



| Name | Size [m] |
| --- | --- |
| HipOffsetX | 0.008 |
| HipOffsetY | 0.090 |
| HipOffsetZ | 0.068 |
| ThighOffsetX | 0.005 |
| ThighLength | 0.300 |
| TibiaLength | 0.315 |
| FootHeight | 0.051 |

## UTHAI Joint limited

| Joint Name | Range in Degrees | Range in Radians |
| --- | --- | --- |
| r\_hip\_yaw | -65.25 to 42.44 | -1.145303 to 0.740810 |
| r\_hip\_roll | - | - |
| r\_hip\_pitch | - | - |
| r\_knee\_pitch | - | - |
| r\_ankle\_pitch | - | - |
| r\_ankle\_roll | - | - |
| l\_hip\_yaw | - | - |
| l\_hip\_roll | - | - |
| l\_hip\_pitch | - | - |
| l\_knee\_pitch | - | - |
| l\_ankle\_pitch | - | - |
| l\_ankle\_roll | - | - |

## UTHAI URDF

## UTHAI DH Tables

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