

# AcYut Specification (TeenSize League)

## Robot Specification

B.K.Rout

Tushar Agrawal, Apoorv Shrivastava, Deepak G

Apoorv Umang, Himanshu Hansaria, Kaustubh Nawade, Khannan S, Mandar Thombre, Pulkit Goyal, Tarang Shah

## Centre for Robotics and Intelligent Systems

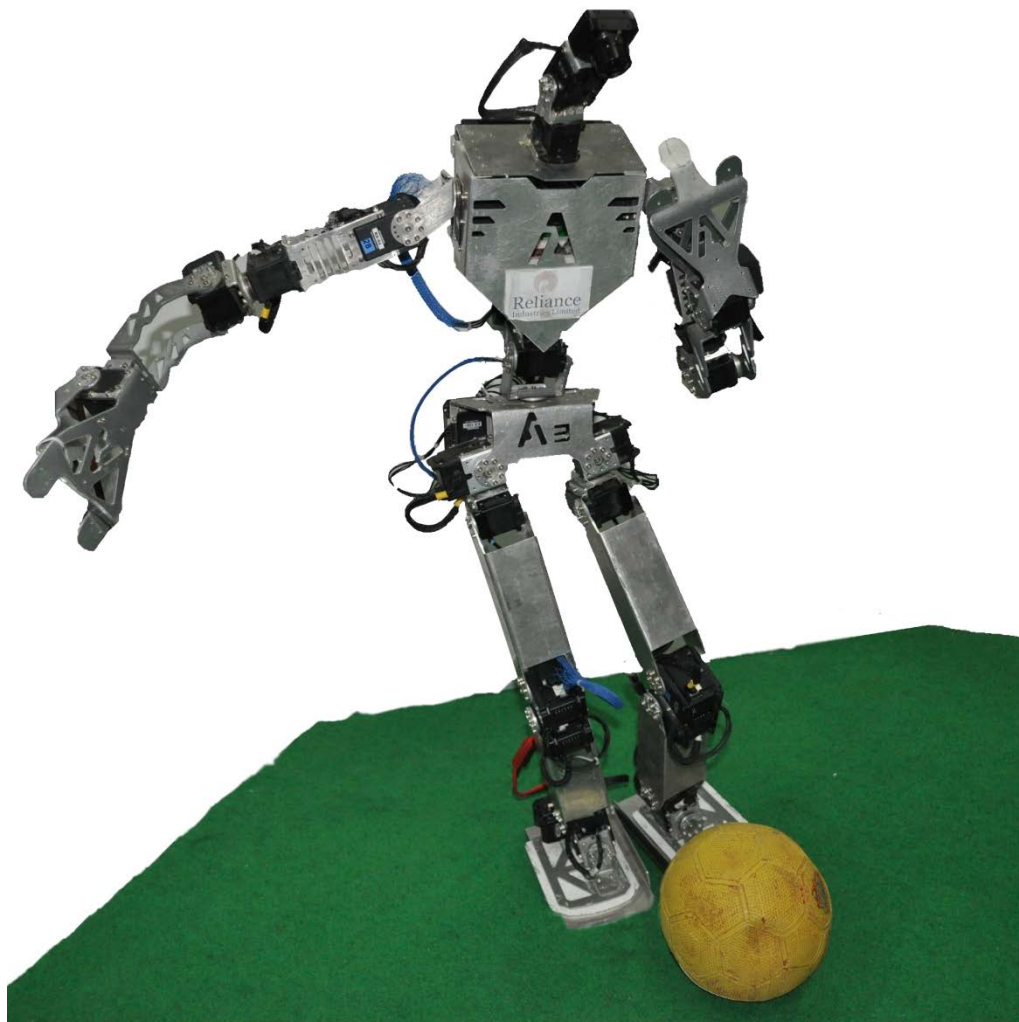
Birla Institute of Technology and Science, Pilani

[contact@acyut.com](mailto:contact@acyut.com), [tushar@acyut.com](mailto:tushar@acyut.com)

{bijoykumarrout|tusharagrawal29|apoorvzzzzz|deepakg92|apoorvumang|  
himanshu.hansaria|khannansundar|ksn2910|thombre.mandar|pulkitgoyal.bits|tarang27}@g  
mail.com

<http://www.bits-pilani.ac.in>

<http://www.acyut.com>



## Specifications

- Robot name - AcYut 5
- Height of the robot -1013 mm.
- Weight of the robot -7.2 Kg
- Walking speed - 20cm/Sec
- Number of degrees of freedom -28
- Type of motors –
  - Robotis EX -106 +- 106Kgcm @ 18.5V in Legs.
  - Robotis RX – 64 – 64 Kgcm @ 18.5V Arms
  - Robotis RX -28 – 28Kgcm @18.5V in head
- Type of sensors used (incl. type of camera(s))
  - Pointgrey Firefly MV camera - RGB resolution (640 X 480) CMOS color sensor
  - Gyro and Accelerometer Sensors
  - Computing unit(s)
    - Master Controller - Intel Atom D525 processor (1.8 GHz)
    - Slave Controllers - Atmega 328 – IMU Data Filtering
- Other specs: Wireless LAN (IEEE802.11a/b/g)