Technical Specifications

Team Name: IranFanAvaran

- Robot Name: Dara
- Number of Degrees Of Freedom: 15
- Height: 110 cm
- Weight: 9.5 kg
- Walking Speed (careful walking): 0.1km/h
- Running Speed (fast walking): 0.2 km/h

- Actuators Used:
  1. DC geared motor with some changes
     Manufacturer: GIL Geared motor
     Model: G35GM-656-H20270
     Torque: 7NM
     Speed: 40 RPM
  2. Servo motor,
     Manufacturer: Hitec
     Model: HS-5245MG
     Torque: 5.5 kg.cm @ 6 v
     Speed: 0.12/60° sec
  3. Servo motor,
     Manufacturer: Hitec
     Model: HS-65HB
     Torque: 2.2 kg.cm @ 6v
     Speed: 0.11/60° sec

- Sensors Used:
  1. CMOS Camera:
     Supports a 2Mega Pixel Resolution
  2. Potentiometers:
     Manufacturer: Bourns, Mexico
     Model: 81B1DB20-A13
  3. Gyro sensor: ADXRS 401, ±75°/s
     Manufacturer: Analog Devices
  4. Accelerometer: ADXL203, ±1.7 g
     Manufacturer: Analog Devices

- Computing Units:
  1. Pocket-PC
     Manufacturer: I-MATE
     Model: Ultimate 6150
     Speed: 520 MHz
  2. AVR local processor boards
     Manufacturer: IranFanAvaran Robotic Group
     Processor: ATmega64 & ATmega8 AVR, Atmel
     Speed: 16 MIPS at 16 MHz