




I.K.I.U. At Work Industrial Robots

Team Members:

 <p>Farhan Daemi Software</p> <p>Bachelor student of Electrical Engineering Imam Khomeini International University.</p> <ul style="list-style-type: none">• Microcontrollers• Python• C / C++• Java <p>fdmxfarhan@yahoo.com 09336448037 Tehran, District 11</p>	 <p>Taha Ahmadzadeh Hardware & Electronic</p> <p>Bachelor student of Electrical Engineering Imam Khomeini International University.</p> <ul style="list-style-type: none">• Altium Designer• PLC• MATLAB• Automation System <p>09355775577 Tehran,</p>	 <p>Amir Ali Eskandari Hardware & Electronic</p> <p>Bachelor student of Electrical Engineering Imam Khomeini International University.</p> <ul style="list-style-type: none">• Microcontrollers• Python• Instrumentation• MATLAB <p>09128331849 Tehran,</p>
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Requirements:

Title	Description	Estimated Price (tomans)
Digital Oscilloscope	A digital oscilloscope to measuring and experimenting signals	10.000.000
Power Supply	Digital power supply	10.000.000
Dynamixel motors	Dynamixel motors for robot's arm	8.100.000
PCB printing	Main Controller Board and lateral drivers	2.000.000
Servo motors	Servo Motor for griper	500.000
Laptop or mini laptop	A Laptop or mini laptop to be placed in robot for image processing and map processing	-
Raspberry pi	Device for running main code and controlling electrical parts	6.080.000
Camera	Webcam camera for image processing	1.500.000
Electrical components	Capacitor, Resistor, Transistor, Op Amp, Mosfet, Motor Drivers,	500.000
Li-po 3cell battery	Robots battery	300.000
Li-po Charger	Charger for li-po batteries	400.000
Lidar Sensor	Lidar sensor to scan the map using laser technology Hokuyo UST-10LX	15.000.000
Mechanical Deployment	CNC / Waterjet cut	800.000
Microcontroller	ST Microcontroller	1.000.000
Working Space		-
Summation		56.180.000