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

**Team Members:**

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**Requirements:**

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| **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 |  | **-** |
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| Summation |  | **56.180.000** |