**California State University Stanislaus**
**Department of Computer Science**
# List of parts for building the Jetbot AI robot

**Common parts**

| Part | Quantity | Notes |
|---|---|---|
| Jetson Nano | 1 | |
| Micro SD card | 1 | 64GB |
| Power supply | 1 | Micro USB, 5V, 2.5A |
| Motor | 2 | "TT" form factor |
| Motor Driver | 1 | Soldering is done (see Step 3 in Hardware Setup) |
| Caster ball | 1 | 1-inch diameter |
| Wheel | 2 | 65mm diameter |
| Battery | 1 | 2x 5V/3A output, 10,000mAh |
| USB cable pack | 1 | Type A to Micro, right angle |
| PiOLED display | 1 | Soldering with PiOLED headers is done (See Step 10 in Hardware Setup) |
| PiOLED header | | 2x3 right angle male |

**Camera**

| Part | Quantity | Notes |
|---|---|---|
| Camera | 1 | Raspberry Pi Camera V2 |
| Camera lens attachment | 1 | 160-degree FoV |

**WiFi**

| Part | Quantity | Notes |
|---|---|---|
| WiFi card | 1 | M2, Intel Wireless-AC 8265 |
| WiFi antenna | 2 | U.FL connectors |

**3D-Printing Parts**

| Part | Quantity | Notes |
|---|---|---|
| Chassis | 1 | |
| Caster base | 1 | for 65mm wheel |
| Caster shroud | 1 | for 65mm wheel |
| Camera Mount | 1 | |

**Assembly Hardware**

| Part | Quantity | Notes |
|---|---|---|
| Adhesive pads | 2 | fixing Battery |
| M3 screw | 4 | fixing Motor |
| M2 screw | 20 | Fixing any other parts |
| Jumper wires | 4 | Connecting Motor Driver with PiOLED display |