

**California State University Stanislaus**  
**Department of Computer Science**  
**Project #1**  
**Hardware Setup and Software Setup**

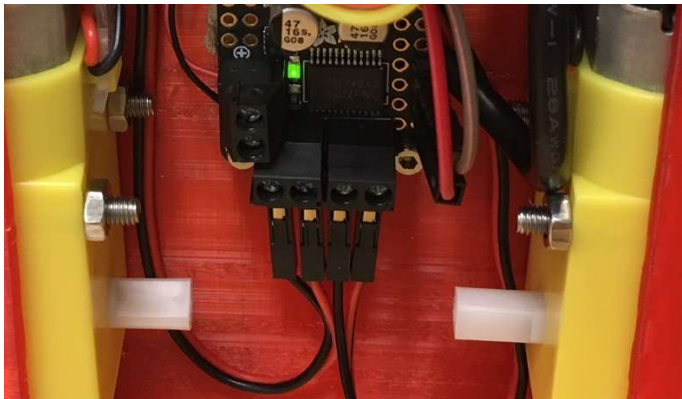
### Hardware Assembly

There are 15 Steps for assembling the JetBot robot. These steps are available online at <https://github.com/NVIDIA-AI-IOT/jetbot/wiki/hardware-setup>

Please note that some steps that require soldering or wire cutting and stripping have been done for your convenience. These steps are

- Step 3 - Solder motor drive
- Step 4 - Strip motor driver power cable
- Step 10 - Solder header onto PiOLED display

Please also note that there is a slight mistake in Step 5 as mentioned in the notice at the end of this step. The following picture shows you the correct connections – the colors of the four wires from left to right are black, red, black, and red.



### Power up to start running your JetBot robot

- Press the start button of the battery

### Connect to your robot with your computer

- Open a web browser and navigate to `http://<jetbot_ip_address>:8888`
- Sign in with the default password jetbot

### Shutdown your JetBot robot

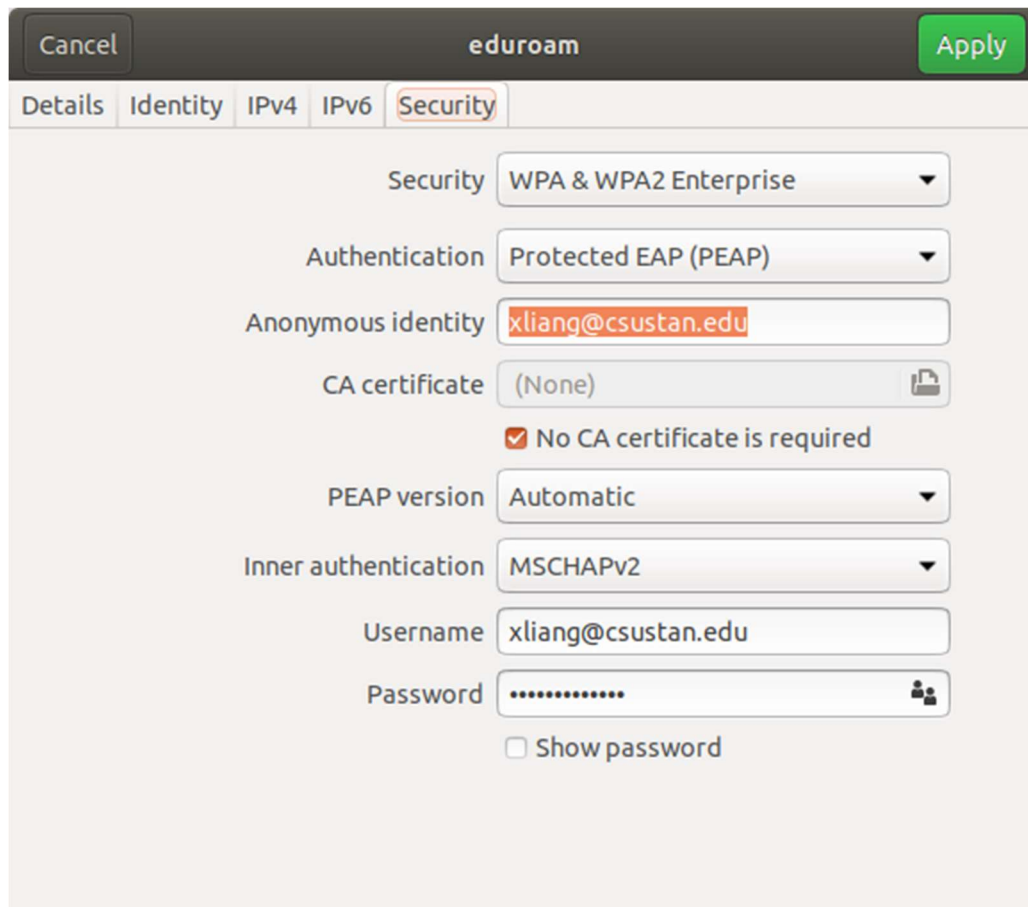
- Open a terminal window, and type command: `sudo shutdown now`

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### Software Setup

There are 6 Steps for setting up software on the JetBot robot. These steps are available online at <https://github.com/NVIDIA-AI-IOT/jetbot/wiki/software-setup>

In Step 3 - Connect JetBot to WiFi, you need to use your university email account to setup the WiFi connection. The WiFi Security settings are shown in the following form.



The image shows a screenshot of the eduroam WiFi configuration interface. At the top, there are 'Cancel' and 'Apply' buttons. Below the title 'eduroam', there are tabs for 'Details', 'Identity', 'IPv4', 'IPv6', and 'Security'. The 'Security' tab is selected. The settings are as follows:

- Security: WPA & WPA2 Enterprise
- Authentication: Protected EAP (PEAP)
- Anonymous identity: xliang@csustan.edu
- CA certificate: (None) with a file icon
- No CA certificate is required
- PEAP version: Automatic
- Inner authentication: MSCHAPv2
- Username: xliang@csustan.edu
- Password: [masked]
- Show password

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### Shutdown your JetBot robot

- Open a terminal window, and type command: `sudo shutdown now`