

Arduino Build Instructions

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revision: A

1 Arduino Software Build

Arduino is the main processor that controls the motor, monitors safety switches and samples the the sensor readings.

2 Required Tools

- Personal Computer
- Arduino IDE (download from <https://www.arduino.cc/>)
- Arduino Due
- USB cable Type-A to Micro-A

3 Steps

3.1 Install IDE on PC

After downloading Arduino IDE, install it on PC by double clicking the installer.

3.2 Connect Arduino to PC

Arduino has two USB ports. The Programming port Serial will be using to upload sketches to the board. Figure1 shows the programming port. Connect Due to PC using USB Type-A to micro-A.

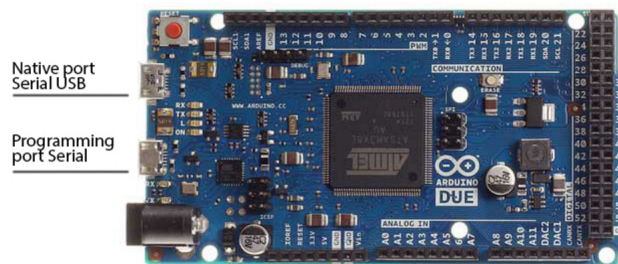


Figure 1: Arduino Due (arduino.cc)

3.3 Open Sketch

Now, the sketch is ready to upload. Open an Arduino sketch by double clicking. Figure 2 shows the dynoControl sketch.

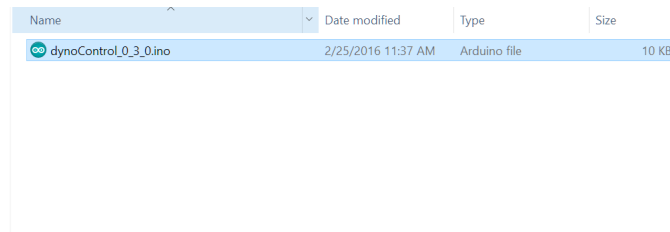


Figure 2: Sketch

3.4 Upload Sketch

Upload the sketch by clicking on “upload” as shown in Figure 3.

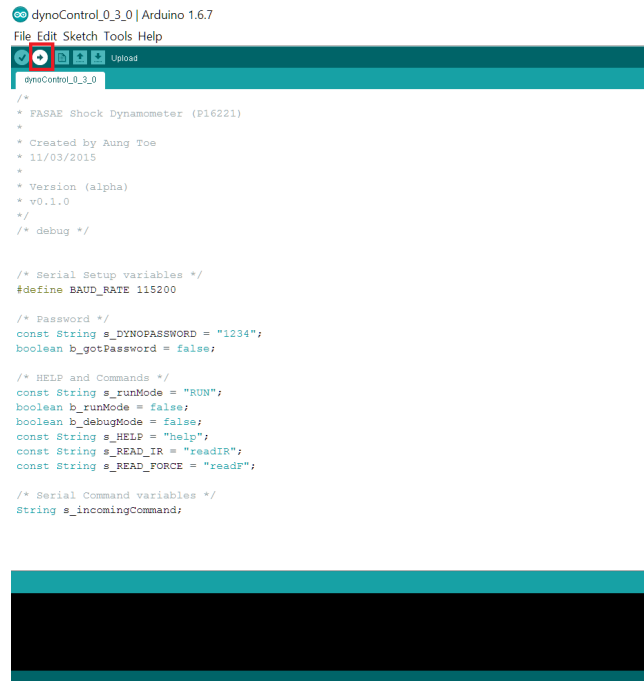


Figure 3: Upload Sketch