**Initial Setup**

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* 1. **Install Arduino IDE**

Download installer from this page <https://www.arduino.cc/en/Main/software> and follow its steps.

* 1. **Set ESP32 support in Arduino IDE**

Follow steps from this website <https://randomnerdtutorials.com/installing-the-esp32-board-in-arduino-ide-windows-instructions/>

* 1. **Install VSCode**

Download installer from this page <https://code.visualstudio.com/> and follow its steps.

* 1. **Install Git**

Download installer from this page <https://www.git-scm.com/> and follow its steps.

* 1. **Components needed this week (They will be used from Tuesday)**

|  |  |  |
| --- | --- | --- |
| **Component** | **Name** | **Picture** |
| Embedded system. One is needed. | ESP32 | Resultado de imagen para esp32 |
| IMU of 9 degree of freedom it includes in its chip a gyroscope, accelerometer and magnetometer. One is needed. | MPU-9250 |  |
| Force sensor resistance. It should be able to measure at least 100kg. Four are needed | FSR |  |
| 10 kilo ohms resistors | Resistors |  |
| Some male to female cables | Cables |  |
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| It is needed for making connections. | Bread board |  |
| External power source | Power bank + USB cable |  |
| Optional | 2 push buttons  2 resistors of 220 ohms  2 resistors of 1 kilo ohm  2 capacitors of 1nF |  |