

Welcome to E 96! This class is intended to give you systems development experience by working with devices designed for the Internet of Things. Our work will be based on the Intel Edison kit, a hardware kit that permits students to develop embedded devices on a small Linux-based platform. You will need to buy an Edison kit and some associated hardware. Here is information on what you need and how to obtain it. I recommend you make this purchase as soon as possible, since there have sometimes been issues with some of the hardware being delivered on short notice.

First, a note on costs. This hardware costs approximately as much as a typical textbook. However, we have no textbook for this class, so the cost of the hardware is similar to the costs of buying a textbook for a typical class.

Please order these **four** items:

1. 1) Intel Edison System
2. 2) Power Supply for Intel Edison System
3. 3) Micro-USB cable set
4. 4) Grove Sensor Kit

Please order immediately to ensure that you have all the components when you need to perform your project.

If you encounter any difficulties, please let me know right away.

NOTE: All URLs listed below must be a single line, without a carriage return in the middle. Students who have not picked them up as a single line have been unable to find the proper web page.

As of March 21, 2017, all of the sources listed below had the hardware in question available for purchase. If you want to purchase some other piece of hardware that you think might be a compatible alternative, I recommend checking with me first.

### **(Item 1) Intel Edison Kit for Arduino Antenna EDI2ARDUIN.AL.K Ordering Options:**

[https://www.amazon.com/Intel-Edison-Arduino-Antenna-EDI2ARDUIN-AL-%20K/dp/B00PTVSU7U/ref=sr\\_1\\_fkmr3\\_1?ie=UTF8&qid=1456959886&sr=8-1-%20fkmr3&keywords=intel+edison+and+arduino+breakout+kit+EDI2ARDUIN.AL.K](https://www.amazon.com/Intel-Edison-Arduino-Antenna-EDI2ARDUIN-AL-%20K/dp/B00PTVSU7U/ref=sr_1_fkmr3_1?ie=UTF8&qid=1456959886&sr=8-1-%20fkmr3&keywords=intel+edison+and+arduino+breakout+kit+EDI2ARDUIN.AL.K)

<https://www.sparkfun.com/search/results?term=EDI2ARDUIN.AL.K>

<http://www.newegg.com/Product/Product.aspx?Item=N82E16813121814>

<http://www.mouser.com/ProductDetail/Intel/EDI2ARDUINALK/?qs=Y%2FiT2p1OqAua3%2FZMmLqDtg%3D%3D>

### **(Item 2) Intel Edison Power Supply**

<https://www.sparkfun.com/products/298>

### **(Item 3) Micro USB Cable Pair (Two Pack)**

***This very important. Please do not try to use other cables – they are either not enabled to include power supply terminals or may be contaminated and can cause the IoT unit connectors to fail.***

[https://www.amazon.com/AmazonBasics-Micro-USB-USB-2-0-Cable/dp/B013PVKQHC/ref=sr\\_1\\_1?ie=UTF8&qid=1490124278&sr=8-1&keywords=AmazonBasics+Micro-USB+to+USB+Cable+3-Pack](https://www.amazon.com/AmazonBasics-Micro-USB-USB-2-0-Cable/dp/B013PVKQHC/ref=sr_1_1?ie=UTF8&qid=1490124278&sr=8-1&keywords=AmazonBasics+Micro-USB+to+USB+Cable+3-Pack)

### **(Item 4) Grove Starter Kit for Arduino**

***(This system was developed in collaboration with Intel. Please note that while the name of the product implies otherwise this is not dependent on Arduino systems – that will not be used in the course.)***

**Ordering Options:**

<http://www.mouser.com/ProductDetail/Seeed-Studio/110060024/?qs=sGAEpiMZZMvxSQPygxWTpU5BLIOQ1PBxcKMD5LtIwNQ%3d>

[https://www.amazon.com/Seeedstudio-Grove-Arduino-Starter-Kit/dp/B00NCF251C/ref=sr\\_1\\_1?s=pc&ie=UTF8&qid=1471474797&sr=1-201&keywords=grove+starter+kit](https://www.amazon.com/Seeedstudio-Grove-Arduino-Starter-Kit/dp/B00NCF251C/ref=sr_1_1?s=pc&ie=UTF8&qid=1471474797&sr=1-201&keywords=grove+starter+kit)

If you have any questions, please contact your TA or Peter Reiher (reiher@cs.ucla.edu).