

Arduino Workshop For Beginner



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What will You learn?

In this mini workshop:

- What is Microcontroller ?
- What is Arduino?
- Process to develop project
- What can Arduino do?
- Development Tools
- Shields
- Getting Started
- Exercises
- Q & A



What is Microcontroller?

MicroController

Small, compact

Read inputs and control
electronics components

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What is Arduino?

- “Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. It’s intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments.”



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What is Arduino?



- “Arduino can sense the environment by receiving input from a variety of sensors and can affect its surroundings by controlling lights, motors, and other actuators. The microcontroller on the board is programmed using the Arduino programming language (based on Wiring) and the Arduino development environment (based on Processing). Arduino projects can be stand-alone or they can communicate with software on running on a computer (e.g. Flash, Processing, MaxMSP).”

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What is Arduino?



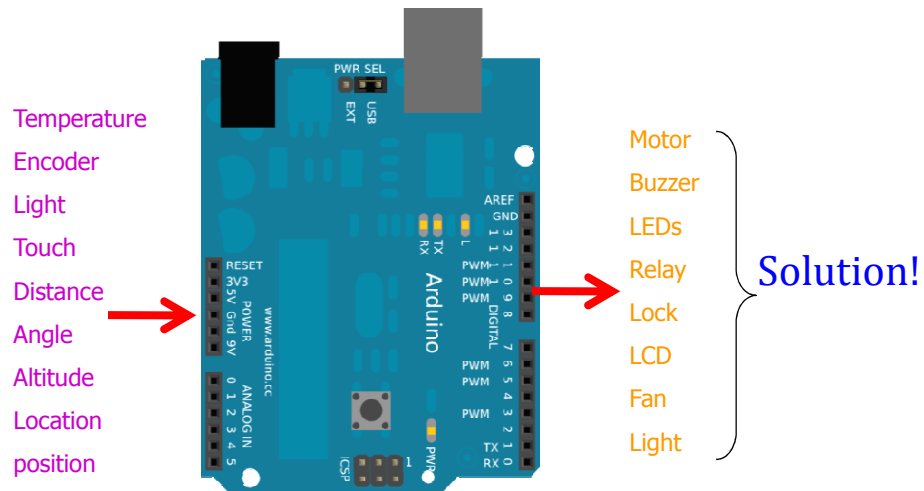
- “The boards can be built by hand or purchased preassembled; the software can be downloaded for free. The hardware reference designs (CAD files) are available under an open-source license, you are free to adapt them to your needs.”



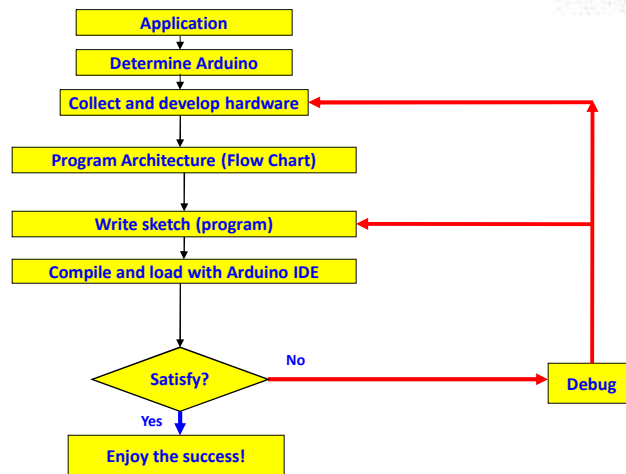
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Where Arduino fit?



Developing Project with Arduino



Complete Slide?

During and After Workshop

