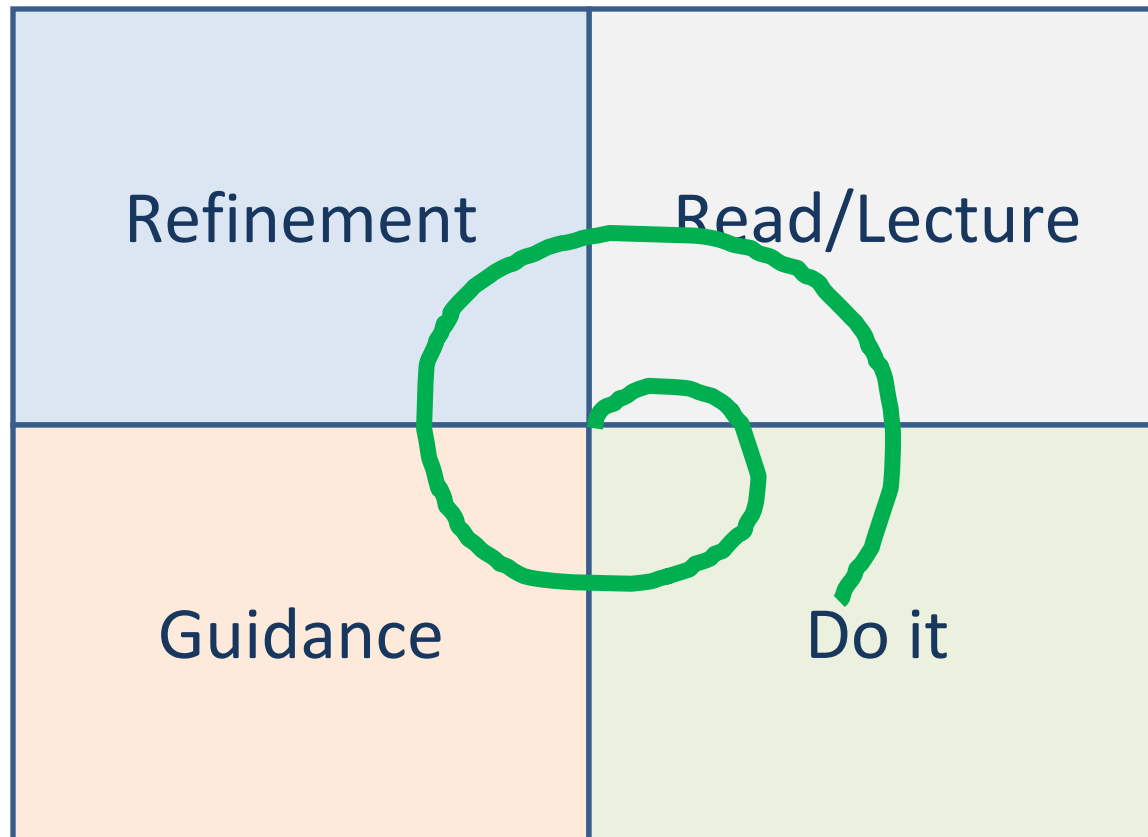




Teaching Process





What is a Mentor?

- Mentor: a trusted friend, counselor or teacher, usually a more experienced person.
- Some professions have "mentoring programs" in which newcomers are paired with more experienced people, who advise them and serve as examples as they advance.
- Today mentors provide expertise to less experienced individuals to help them advance their careers, enhance their education, and build their networks.



Items for Guidance

- Integrity and Identity
 - We want to be good
- Right time and place
 - Age and Responsibility
- Family
 - Inheritance
 - Investment
- Biggest Hurdle of life – People



Items for Guidance

- Bravery vs Foolishness
- Reality of Life
 - It is not Easy
 - It is not Predictable
 - It is not Fair
- Key to Success is
 - Over compensate
 - Redundancy
 - Mitigation planning – have a “Plan B”

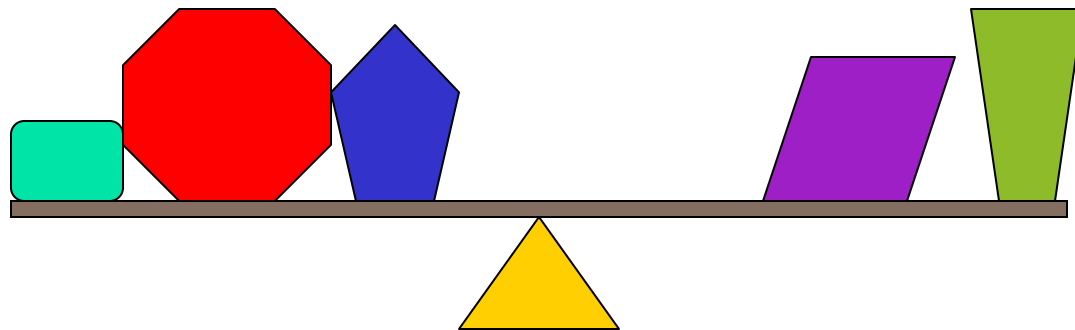
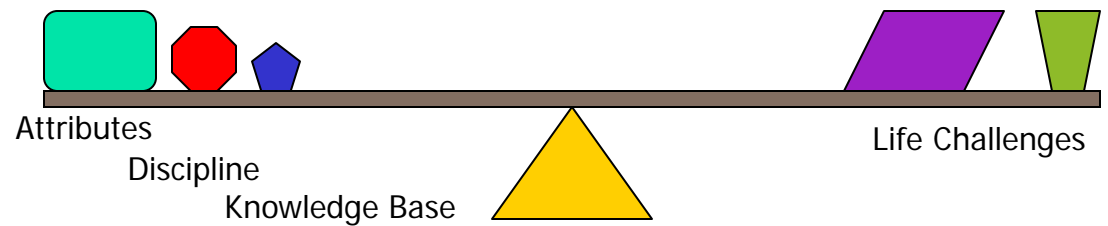
Items for Guidance

- The Birds and the Bees

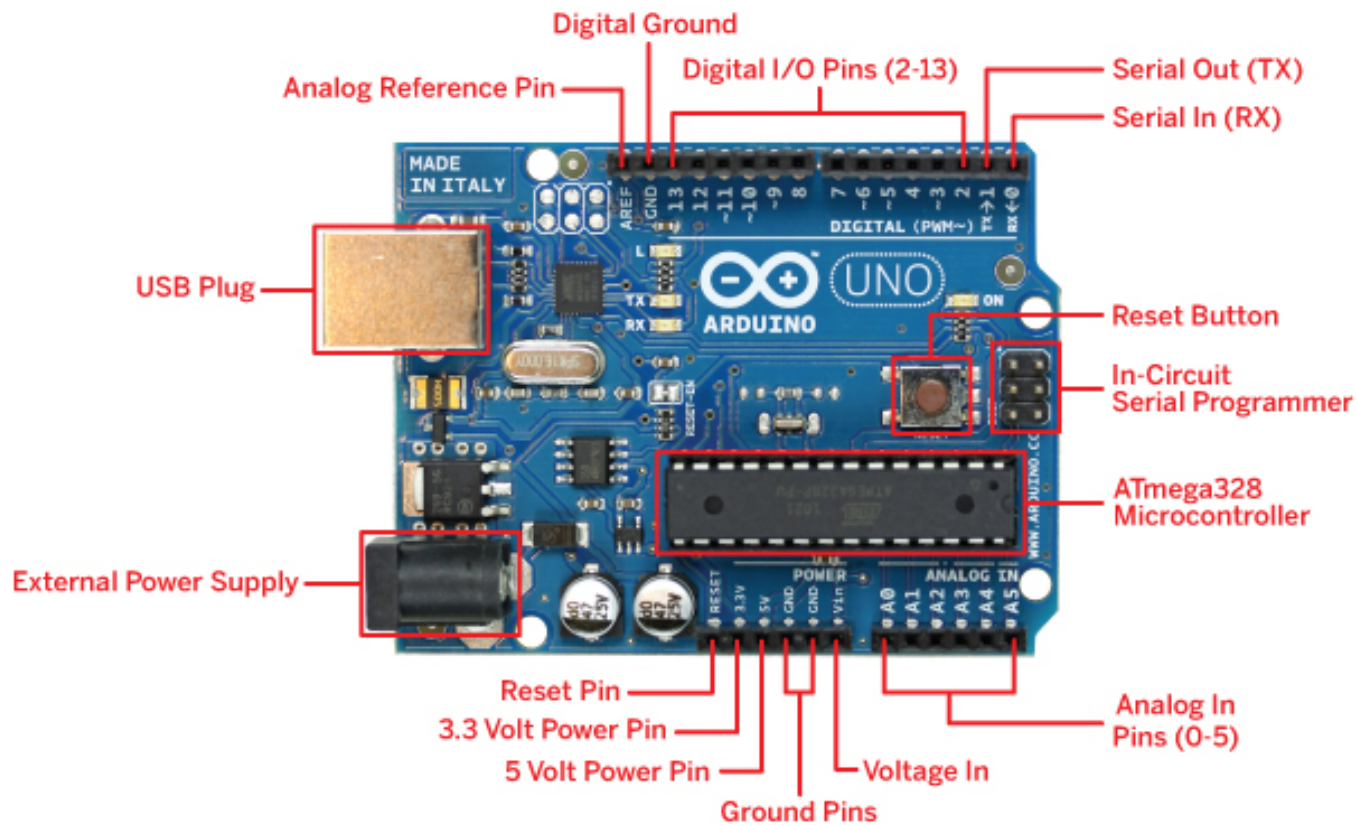


Items for Guidance

- Improved Capability / Competency



Arduino Uno Microcontroller





Starting with Arduino

- Setting up the IDE
- Install Driver for Arduino USB communication
- Download Terminal by Br@y++
 - <https://sites.google.com/site/terminalbpp/>
 - Used for serial communication with the Arduino
- Programming will be done for:
 - Autonomous
 - Serial input
 - Button input



Project Development

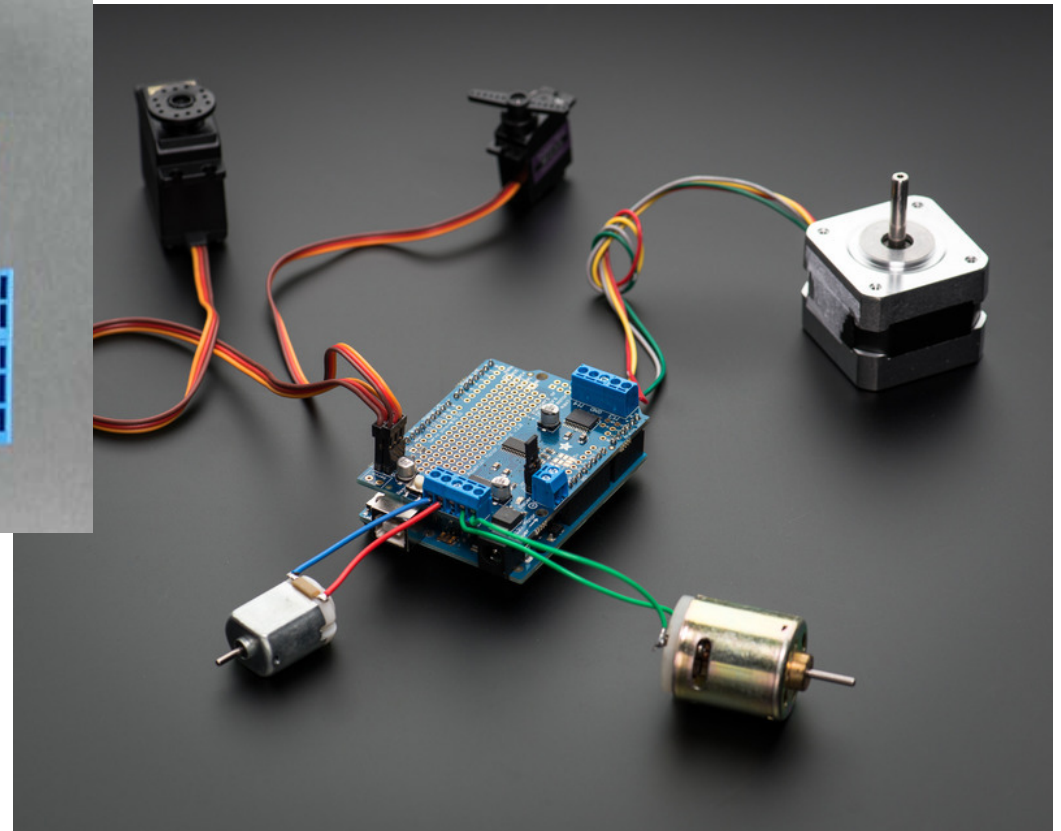
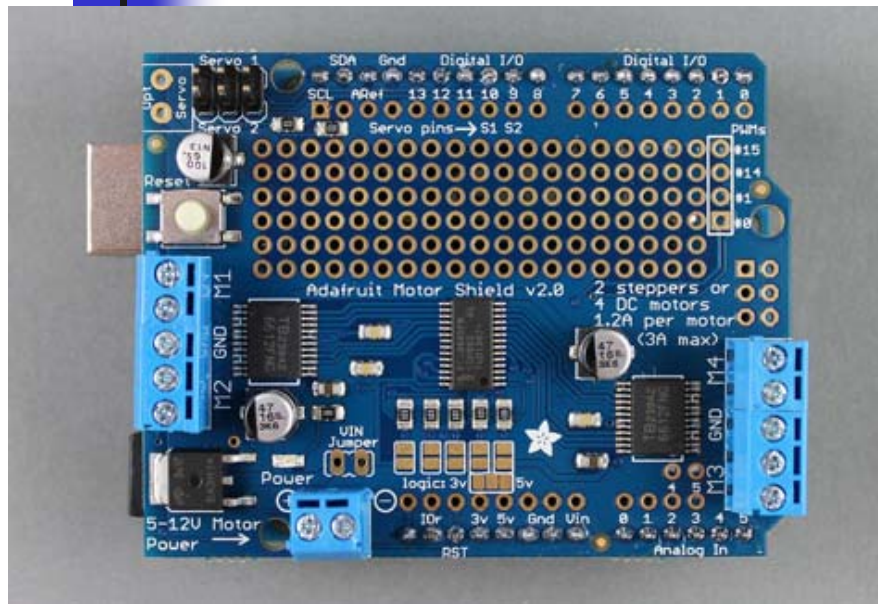
- Review YouTube videos 1-5
 - http://www.youtube.com/watch?v=fCxA9_kg6s
- Follow the LED onboard light Example
 - Autonomous
 - Serial input
 - Button input
- Make our test bed
- Implement the Servo with the Arduino
 - Autonomous
 - Serial input
 - Button input



Project Development

- Digital vs Analog
- Issue of De-bouncing (10K Ohm resister)
- Using H-Bridge
- Wireless Implementation
 - XBee
 - Bluetooth

Arduino Uno – Motor Shield



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