* Introduction to RoD
  + Demo Robot
  + 3d printer
  + Why Robots?
  + Laws of robotics
  + What you’ll learn:
    - Basic Electronics
    - Arduino microcontroller
    - Programming
    - CAD
    - 3d printing
* Basic electronics
  + Voltage like water
  + Conductors, insulators, resistors
    - Examples of each
    - What is a wire?
  + Voltage, current, resistance
  + Electrical safety
    - 9V safe, 110V not.
  + Completing circuits
  + Lab:
    - light a light bulb
    - Breadboard
    - Various configurations – works or doesn’t work.
* Components:
  + Resistors
  + LEDs
    - Lab: light some LEDs
  + Switches
    - Lab: switches
  + Motors
    - Lab: motors forward, backwards
* Arduino
  + Blink
  + Blink with external LED
  + Potentiometer
    - Print to serial port
    - Control blink duty cycle
    - Speed up duty cycle -> PWM
  + RGB LED
    - Program blink colors
  + Many LEDs
    - Blink on one at a time.
    - Ping pong
    - Marquee
  + Light sensor
  + Temperature sensor
  + Buzzer
    - Play a song
  + Switches
  + Motors
  + Servos
* Building the robot
  + Arduino shield
  + Motor shield
    - Motors
    - Motor test
  + Assemble robot
  + Motor test
  + Bumper robot
  + Line following
* Radio controlled
  + RF24 with MLG controls
  + Goal button
  + 2 player goal button
* One-on-one
  + Kill switch
  + One-on-one battle
* Designing weapons
  + Design simple hammer
  + Design your own weapon
* Build a joystick