

Four Arduino Signal Concepts

RAILROADER'S C/MRI APPLICATIONS HANDBOOK V3.0 - VOLUME 2 SIGNALING (HBV2) <https://www.jlcenterprises.net> >> Products >> Books

Programing Arduino Getting Started with Sketched by Simon Monk (any edition) Many others like it

Learn C++ on YouTube. Go to YouTube.com and then search "Arduino c++". Pages of options.

Extensive discussion on signaling (from Denmark no less).
http://www.lundsten.dk/us_signaling/index.html

Arduino web site: arduino.cc

engineering.com Information on getting prototype LED color, soldering surface mount LEDs and other interesting stuff

Current sensing detectors and other electronics:
modelrailroadcontrolsystems.com
Chubb site <https://www.jlcenterprises.net>
rrcirkits.com

Infrared detectors: search "ir infrared avoidance module" on Amazon.com, ebay.com, aliexpress.com or other similar sites

Infrared diodes: search "ir infrared diodes 3mm" on Amazon.com, ebay.com, aliexpress.com Be sure to look for 940 nm wavelength and 3mm size in description. ~ 10 cents in quantity.

Link to infrared switch activation in staging yard:
<https://drive.google.com/file/d/1SySsb6ZEKALjj2YNUGT0STB4otNr80n9/view?usp=sharing>

Arduino MEGA implementation:
<https://www.youtube.com/watch?v=AKwYVwNBHLc&t=16s>

Arduino NANO or MICRO implementation
<https://www.youtube.com/watch?v=A28q13Qd3g0&t=1s>

IR Demo 1 - IR transmitter sweeping to show angle of transmitting and receiving (unedited):
https://drive.google.com/file/d/17cFyabefGZH2lM_584Y55DSYB1QPUOqv/view?usp=sharing

IR Demo 2 - car break beam - look of change in green LEDs at bottom of pix (unedited):
<https://drive.google.com/file/d/191fpiroGw-d4nuJOA4JpUNPtLGQbUH4p/view?usp=sharing>

This clinic in pdf:
<https://drive.google.com/file/d/1GKxB31IY2vhJTf3GPuksccc0wm9E4irv/view?usp=sharing>