• 1 - Laptop / PC
  o Ensure student has full access to the machine to install apps / software as needed
  o Update firewall settings to allow access to the internet and local intranet IP addresses
  o Minimum Specs –
    ▪ Windows 7, 8.1 or 10
    ▪ Latest Security Updates installed
    ▪ Windows 7 / 8.1 -
      ▪ 1 gigahertz (GHz) or faster processor.
      ▪ 2 GB RAM
    ▪ Windows 10 -
      ▪ 2 gigahertz (GHz) or faster processor.
      ▪ 4 GB RAM

• 1 Android Tablet (separate from device used to run zoom / video)
  o CLEAN / FACTORY RESET
  o Ensure student has full access to the machine to install apps / software as needed
  o Update firewall settings to allow access to the internet and local intranet IP addresses
  o Student will need access to a Google account to download apps form the Play Store
  o Android 9.0 (Pie) or better
  o 7” screen or larger (9” or larger preferred)

• Create a dedicated contest email address

• Live internet connection with ethernet port / ethernet cable

• Basic Hand/ cabling tools as outlined in the National Technical Standards

• Drill with charged battery with small set (14+) standard drill bit sizes

• Cabling Materials
  o Thermostat wiring (5+ leads)
  o Doorbell wiring (2 leads)
  o 10+ each of the following connectors
    ▪ Compression F Connectors
    ▪ RJ11
    ▪ RJ45
  o 20’ + length of the following cables
    ▪ Cat 6
    ▪ Cat 5
    ▪ Dual Shield Coax

• Pre-built installation Wall
  o School will either build or obtain a suitable wall for installing contest equipment
  o The wall will simulate a standard 16” center wood stud wall as specified by the SBC for a two-story home
  o Material List:
    ▪ 7 2x4x8 Untreated studs
    ▪ 2 4x8x 1/2 Drywall sheets
    ▪ 1 Roll 25’ 14-2/g Romex wire
    ▪ 2 1-Gang Plastic New Work Standard Switch/Outlet Wall Electrical Box
    ▪ 2 White 15-Amp Duplex Residential Outlets
    ▪ 1 lb #6 x 1-in Bugle Coarse Thread Drywall Screws
    ▪ 1 lb 3-1/2-in 8-Gauge Bright Steel Common Nails
    ▪ 1 15-Amp 125-Volt NEMA 5-15p Heavy-Duty Straight Plug
    ▪ 1 Extension cord long enough to patch into a properly grounded and fused / breaker 110v line
Recommended Wall Construction:

[Diagram showing wall construction details]