Shaan Yadav ay140
“I have adhered to the Duke Community Standard in completing this assignment”

Pre-Lab Deliverable (1)

Sensor	**Location on CX-Bot?**	**Pinout**
Hall Effect Magnetic Sensor (A1324)	No special location on CX-Bot Shield	- Lead 1: Supply voltage connected to 5V, either at left or below breadboard. - Lead 2: GND connected to ground, either at left or below breadboard. - Lead 3: V_{out} connected to an analog input channel, A0 in the example code.
Color Sensor (TCS34725)	Already mounted on CX-Bot Shield	- Lead 1: SDA to Data line (analog input channel) - Lead 2: SCL to Clock line (analog input channel) - Lead 3: GND to ground - Lead 4: V_{in} connected to 5V
Infrared Thermal Sensor (MLX90614)	No special location on CX-Bot Shield	- Lead 1: V_{in} connected to 5V - Lead 2: GND to ground - Lead 3: SCL to Clock line (analog input channel) - Lead 4: SDA to Data line (analog input channel)
Radio-Frequency Identification Reader (ID-12LA)	Already mounted on CX-Bot Shield	- Lead 1: VCC connected to 5V - Lead 2: DATA channel to serial receive port, on CX bot Serial1 (pin 19) - Lead 3: GND to ground
Multi-Character Liquid Crystal Display (27977)	Already mounted on CX-Bot Shield	- Lead 1: Rx linked to Serial3 - Lead 2: Supply voltage connected to 5V - Lead 3: GND to ground