This table shows the current complete list of interfaces in the student portal for your project. This output can be helpful for summarizing your current project state and looking for discrepancies in the system architecture. This page is not guaranteed to be visible to users who are not students of ECE44x.

The table below can be 'Copy and Pasted' into Google Sheets, Excel, MS Word, and a variety of other tools.

Name	Properties
otsd_hmdty_envin	 Humidity: up to 90% humidity Humidity: min 0% (humidity cannot be below 0, it is a ratio) Water: No Standing Water
otsd_tmprtr_envin	 Temperature (Absolute): as low as 0 degrees farenheit Temperature (Absolute): as high as 120 degrees farenheit Water: No Standing Water
otsd_shck_envin	 Other: Affixed to mechanical mounting point with no shock (dampening) mount Water: No Standing Water
otsd_atmsphrc_prssr_envin	 Other: The input to this block must not sustain physical contact during block operation. Water: No Standing Water
otsd_gps_rf	 Datarate: 10 Hz to 18 Hz Messages: GPS data stream Protocol: NMEA
otsd_mcrcntrllr_dsig	 Other: Firmware programming through internal USB pins Other: Bootloader programming through Serial Wire Vnominal: 3.3V
otsd_ornttnenvin	 Other: Acceleration: up to 4g's in the x direction Other: Acceleration: up to 4g's in the y direction Other: Acceleration: up to 4g's in the z direction Other: Orientation: 720 degrees of rotation per second (2 rotations in 1 second)
hmdty_mcrcntrllr_dsig	 Other: Readable Data: Readable Humidity Values in terms of % relative Humidity (ex: 40.00% RH) Other: Protocol: I2C Other: Logic Level: 3.3V
tmprtr_mcrcntrllr_dsig	 Logic-Level: 3.3V Other: Readable data: temperature values in Celsius and farenheit Other: Protocol: I2C
shck_mcrcntrllr_dsig	 Logic-Level: 3.3V Other: Protocol: SPI (for configuring interrupt) Other: Interrupt signal to microcontroller
atmsphrc_prssr_mcrcntrllr_dsig	 Logic-Level: 3.3V Other: Protocol: I2C Other: Readable Data: barometric pressure and altitude

gps_mcrcntrllr_dsig	 Logic-Level: 3.3V Other: Readable Data: lattitude, longitude, and current date and time Other: Protocol: UART
bttry_mcrcntrllr_dcpwr	 Inominal: 25mA Ipeak: 250mA Vmax: 13V Vmin: 7V
sd_crd_otsd_usrout	 Other: Data formatting must be in a csv Type: SD Card Usability: SD card must be easily removable by user
frmwr_mcrcntrllr_data	 Messages: Processed Data Other: Language: C
mcrcntrllr_sd_crd_data	 Messages: Processed Sensor Data Protocol: SPI
mcrcntrllr_frmwr_dsig	 Other: I2C Data Other: Sensor Signals Other: Control/Configuration signals
ornttnmcrcntrllr_dsig	 Other: Data format: readable orientation vector [x, y, z] Other: Data format: readable acceleration value [x, y, z] Other: Protocol: I2C at 3.3V logic level