

**Bowei Zhao**  
**HW5 Submission**

ECE 2534 – Homework 5 (55 points)

A/D Conversion, Interrupt Service Routines, Glyphs and OLED Graphics

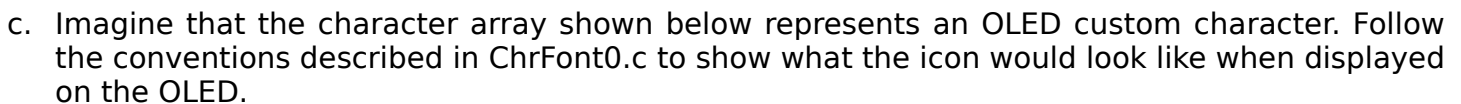
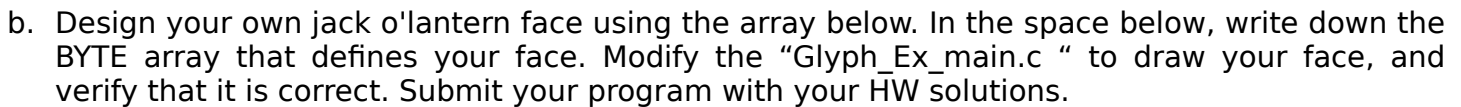
For each problem, write the code that solves the problem in its own .c file. Name your files accordingly: hw5\_problem2, *etc.* Give consistent names to any header files you produce for the purpose of completing this assignment.

Submit a document containing your answers to Problem 1 and a zipped archive containing the source code for Problem 1b and 2. Use this naming convention for the archive that you submit:

**<Last name>\_<First name>\_HW5.zip**

Replace <Last name> and <First name> by your family name and given name respectively.

a. Imagine that the “icon” shown below is to be mapped to the OLED as a custom character. Follow the conventions described in `ChrFont0.c` to create the array that would display the icon as a character on the OLED.



X			X				X
X			X		X		X
X			X			X	X
X	X	X	X		X	X	X
X	X	X	X		X	X	X
X			X		X		X
X			X		X		
X			X		X		X