

# HEXKEY PAD

## Testing HEX Keypad with DE1-SoC

- Download ***hexkeypad.zip*** program from DESL web site;  
<http://www-ug.eecg.utoronto.ca/msl/test/hexkeypad.zip>
- Create a directory called **hexkeypad** and unzip files. There should be two files `hexkeypad.v` `hexkeypad.qsf`.
- Using Quartus compile the Verilog code.
- Down load **hexkeypad.sof** file to DE1-SoC. Make sure all switches on the DE1-SoC are down.
- Connect 40 pin ribbon cable to JP2 (GPIO-1). Attach other end to HEX Keypad.
- Flip **switch 0** on DE1-SoC **up**. This enables the program.
- Press any key on the HEX Keypad and the value of that key will be displayed on HEX0 of the DE1-SoC board.
- IF each key comes up correctly then the HEX Keypad is working properly

If there are any problems email [gizmotech@eecg.utoronto.ca](mailto:gizmotech@eecg.utoronto.ca)