Design and implement a low pass *Elliptic* filter to meet the following specifications:

- Sample Frequency: 11025 Hz
- Pass band edge: 0 to 1,800 Hz
- Pass band ripple: 0.01
- Stop band edge: 2,300 Hz to fs/2
- Stop band ripple: 0.02

Implement this filter on the ARM Nucleo board.

Turn in the following:
1. Cover sheet with the assignment number, your name, the date turned in, and your filter order.
2. A signed verification sheet showing that you implemented this filter correctly. The sheet must be signed by Blandford or Cron
3. Your complete commented C code which implements the filter and shows the second order sections
4. The frequency vs. amplitude plot for the filter over the whole frequency band.
5. Blow up plots of frequency vs. amplitude that show that your filter meets the specifications.
6. The MATLAB code used to design the filter.
Verification Sheet
EE 311 Assignment 07

I verify that __________________________ implemented a low pass ____________
filter that meets the following specifications:

Sample Frequency : 11025
  Pass band edge : 1800 Hz  Pass
  band ripple : 0.01
  Stop band edge : 2300 Hz
  Stop band ripple : 0.02

____________________________________
Signed by Blandford, Randall, or Cron

Note any exceptions:

_____________________________________________________________
_____________________________________________________________
_____________________________________________________________
_____________________________________________________________