LIST OF DELIVERABLES

Files:

|  |  |
| --- | --- |
| FinalReport.pdf | Project report |
| n4fpga.v | Top level module |
| n4fpga.bit | Bit file |
| n4DDRfpga | Constraint file |
| ece544\_IP\_Test.c | Main code C. Implement application of real time + Robot navigation |
| picture.h | Header file store image 24-bit map array for Pmod OLEDRGB |
| bitmap.py | Python convert 24-bit map to array |
| Embsys.pdf | Block diagram |

Folders: Some specific folders

|  |  |
| --- | --- |
| hardware | Verilog code |
| software | All C file application and header |
| image | All images file and Python code |
| vivado-library-master | All IP Pmod from Digilent |
| Ip\_repo\_544\_p1 | IP Pmod ENC + OLED RGB + Nexys4 from project 1 |
| Song IP (GPIO) | IP for Song + all coe file |
| ece544\_IP\_Test.c | Main code C. Implement application of real time + Robot navigation |