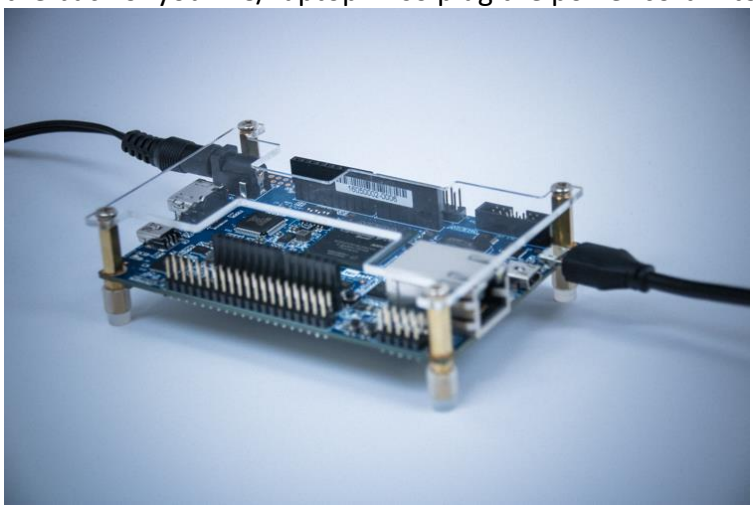
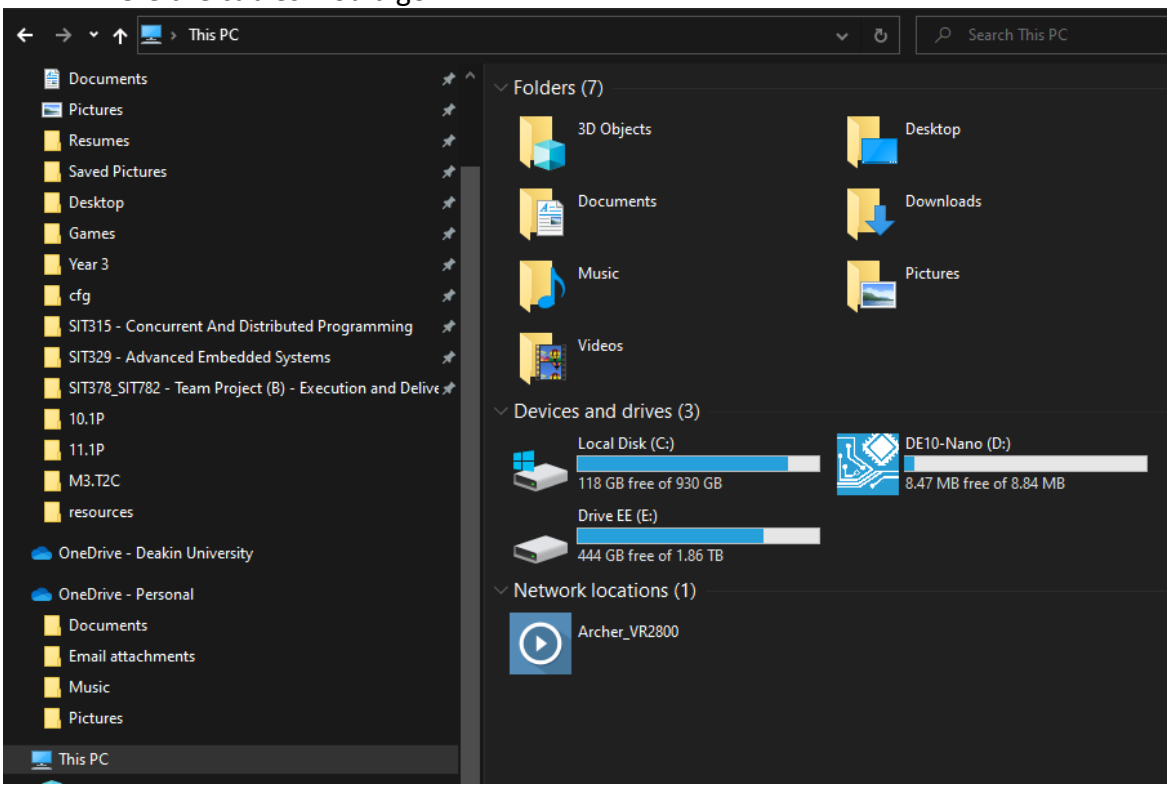
FPGA on windows (revised by Keefe Alpay)

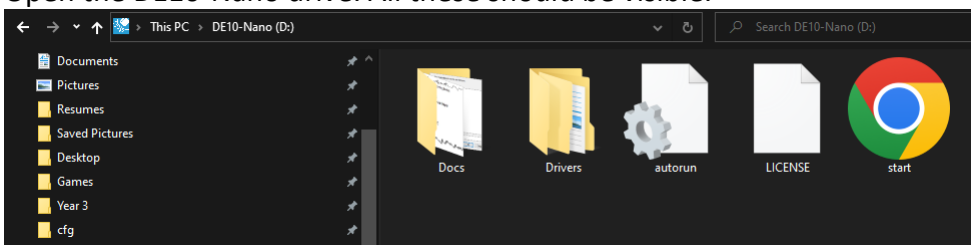
1. Plug in the micro b cable to the USB OTG Micro-AB on the FPGA. Plug the other end of the USB to the back of your PC/Laptop. Also plug the power cord into the board.



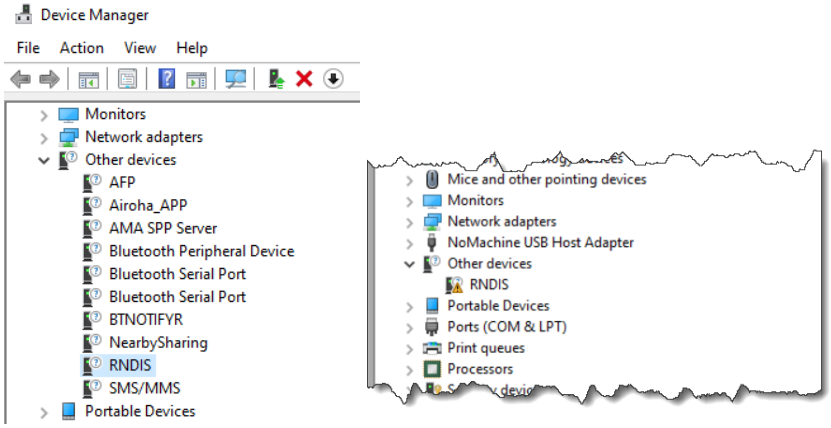
2. Open file explorer and navigate to the device “DE10-Nano”. Windows may take a few seconds to recognise the FPGA connected to your PC/Laptop. If all steps are followed, Windows should recognise the De10-Nano drive, If not, **check if you are using the correct cable/port**, **DO NOT** use the Mini-B port or the USB Blaster 2 (USB Mini-B), these are common issues with this step. Verify with the image on step 1 where the cables would go.



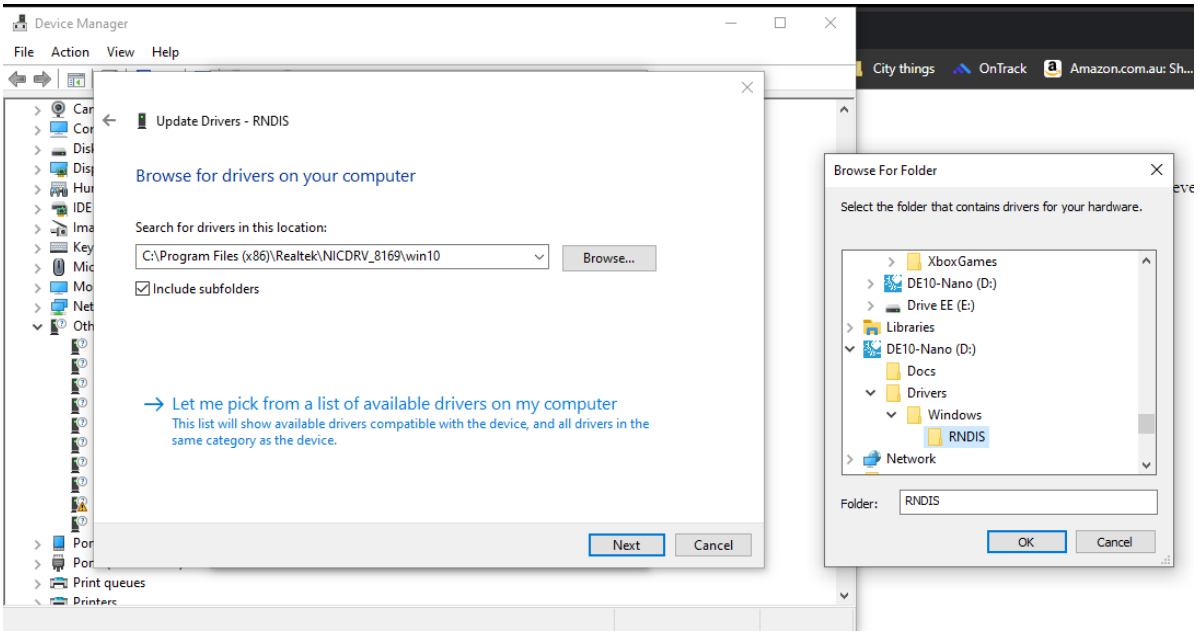
3. Open the DE10-Nano drive. All these should be visible.



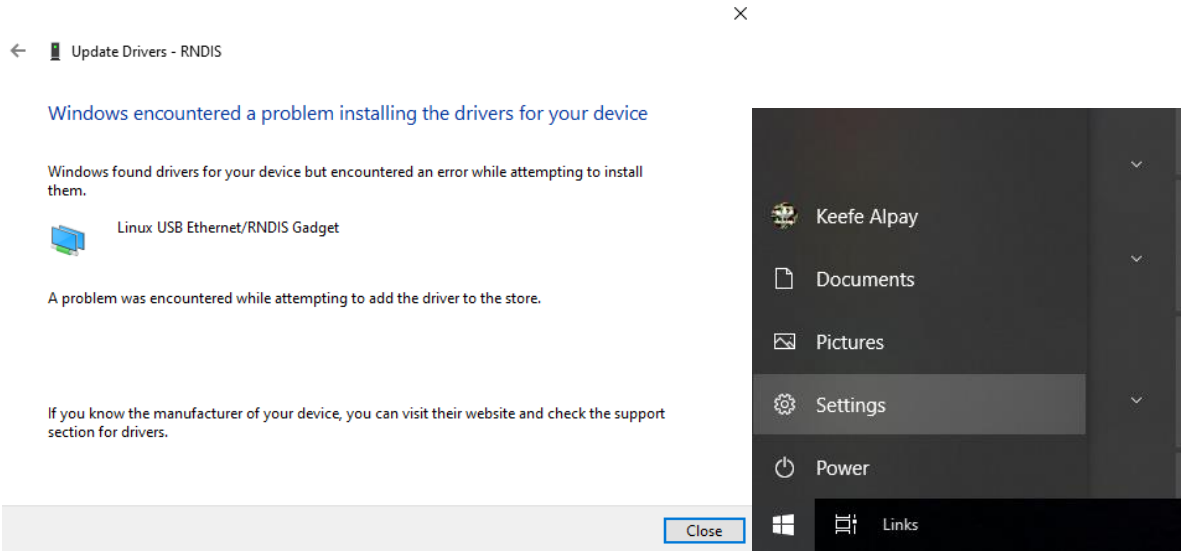
4. If you are on a Windows machine. You will need to install the RNDIS driver to enable Ethernet over USB. You can click the “start” HTML file for more information. To install the driver, open Device Manager on Windows. Under “Other devices”, find RNDIS. I have 2 figures here to show the yellow warning triangle and one without.



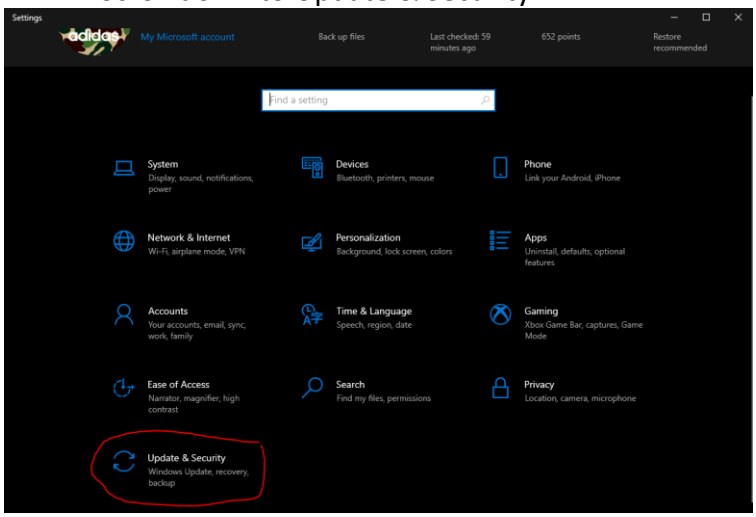
5. The RNDIS device should have a yellow warning triangle if the driver is outdated/not installed. To remove the warning triangle, open the RNDIS properties by clicking on it and updating the drivers. Click **Browse** navigate to the DE10-Nano drive go inside Drivers > Windows > RNDIS select this folder and click ok and Next. If there are **no errors skip to step 16**. **If there are errors proceed to step 6**.



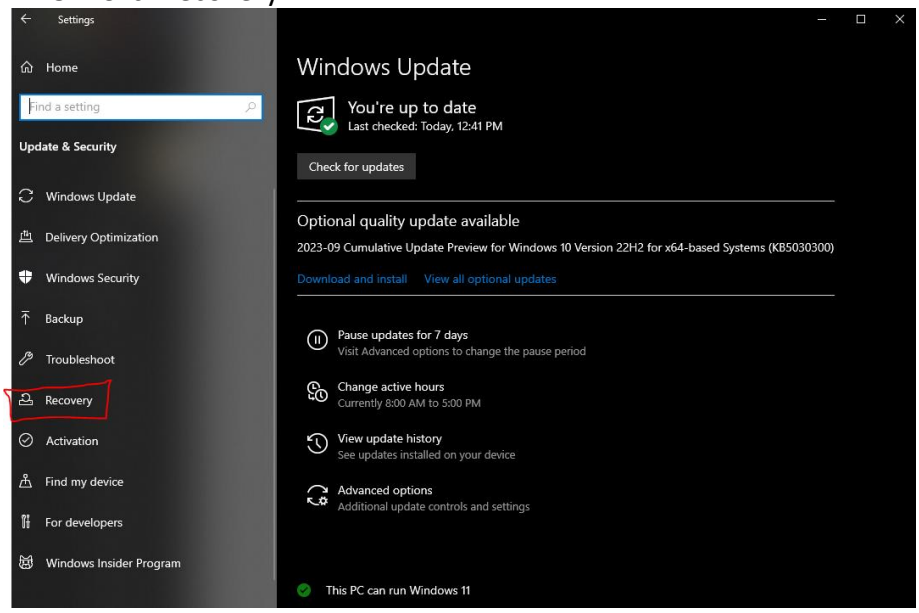
6. If you have encountered an Error After clicking Next, click on the start menu and go to settings.



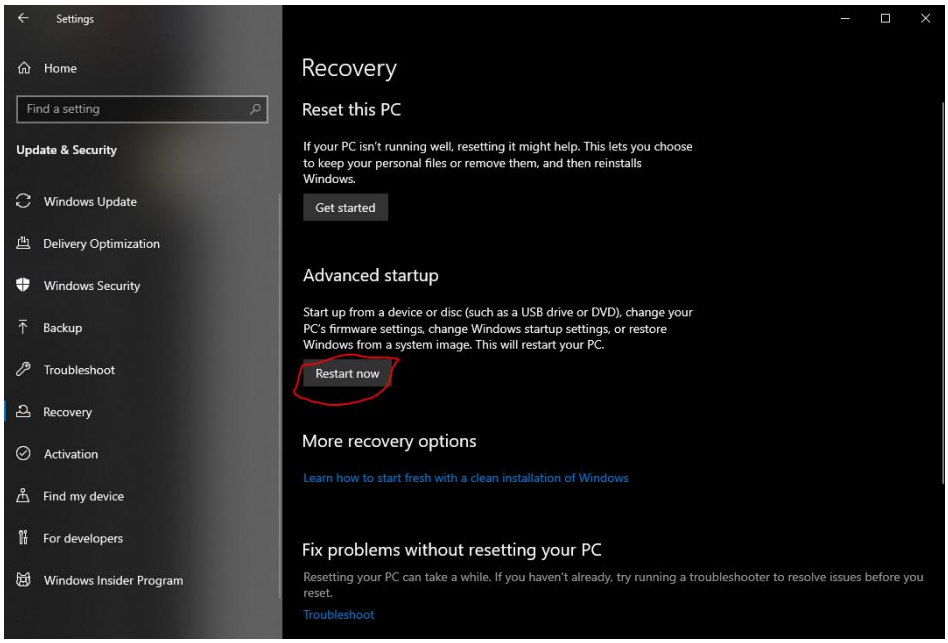
7. Scroll down to Update & Security



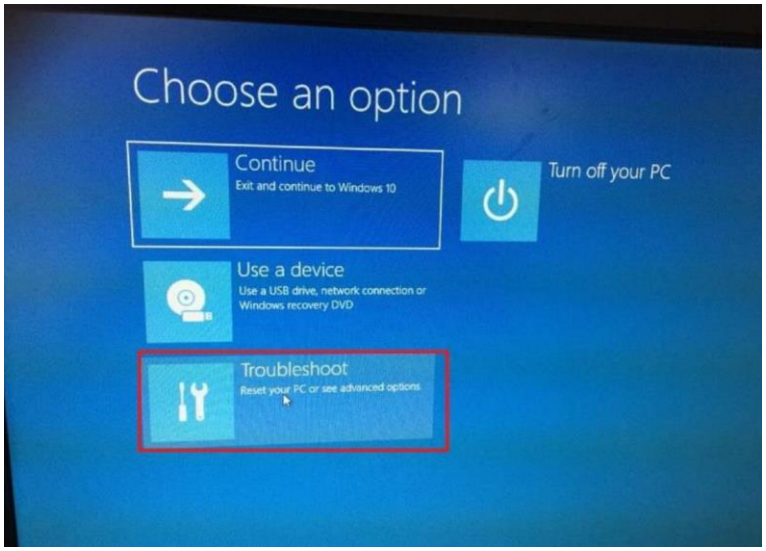
8. Click recovery.



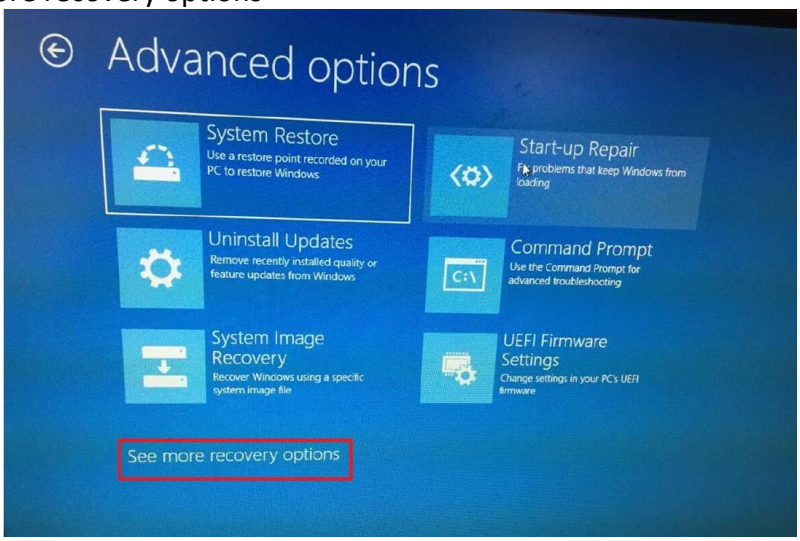
9. Click Restart now



10. Click Troubleshoot.



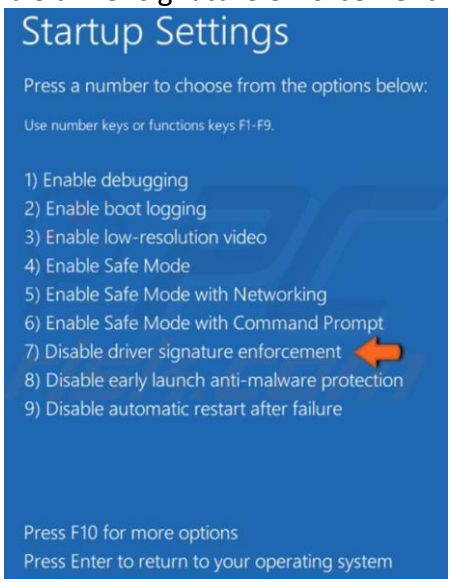
11. Click See more recovery options



12. Click Start-up Settings

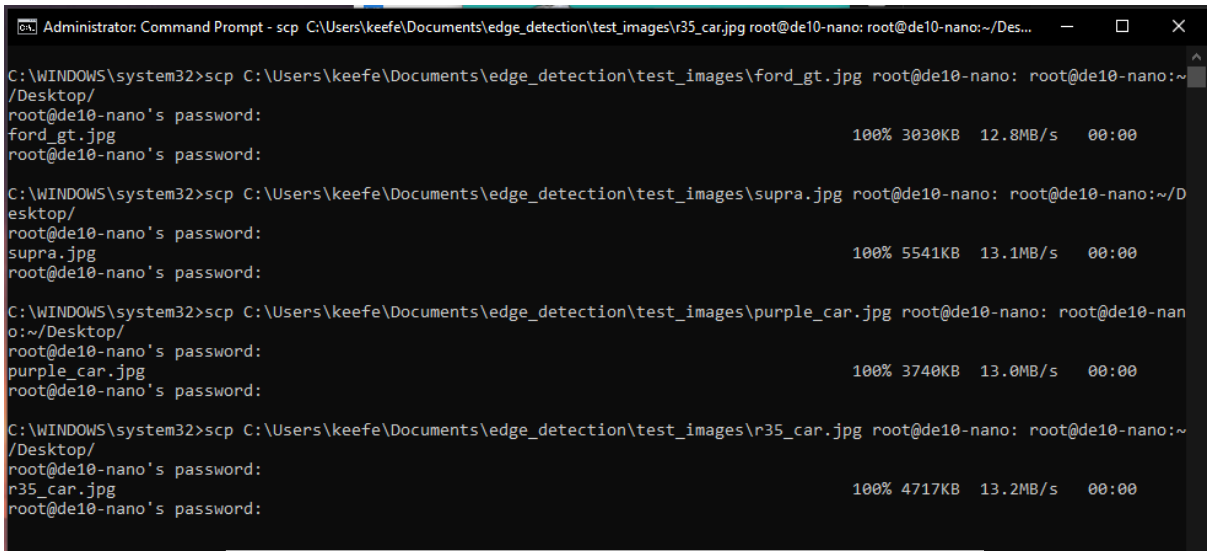
13. Click Restart

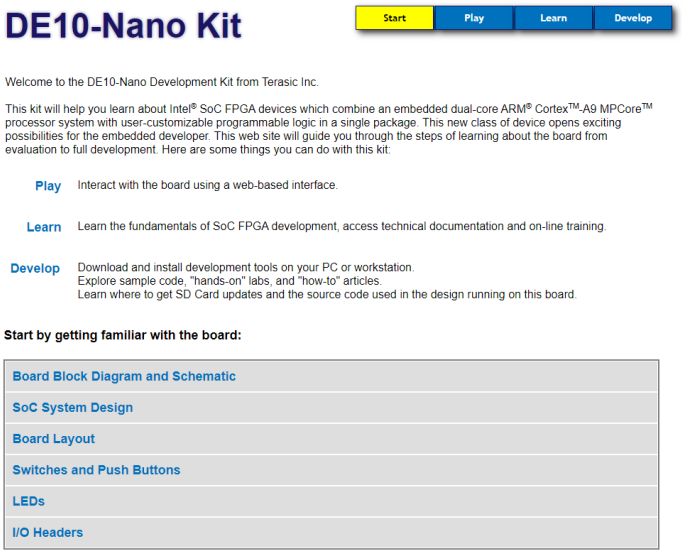
14. Press 7 OR F7 to “Disable driver signature enforcement”



15. The PC/Laptop will restart. **Go back to step 4** and install the driver.

16. Use Chrome or Mozilla Firefox and enter the IP address of the FPGA 192.168.7.1 into the URL





17. Click on this YouTube link to view the result, this demonstrates how to blink LEDs.