Aung Myin Kyaw (Max) weekly Research Progress Report

Date : 01/09/2018 to 08/09/2018

➢ **Scope of the work:**

    ✓ **Troubleshooting of the CCS100_CSharpDemo.exe**

       (carry on from last week)

➢ **Research Progress in last week**

 ✓ Troubling shooting of CCS100_CSharpDemo.exe

➢ **Research Plan for next week**

 ❖ Continue troubleshooting the CSharpDemo execution file as it is necessary in the progression of the project.
 ❖ Research for different implemented programs using Thorlabs library.
 ❖ Greater in depth research for tools that are available in C# language

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➤ This week I have written a short code to test whether the program can be communicated with CCS100. This allows me to narrow down the different part of the code which could cause an error. I have attached the code that I have written to test below.

From further investigating of the codes, I have learnt that certain lines of code may have caused an error.

1st - instrument number was declared as "0x8089" which is for CCS200 thus I have changed it to "0x8081" for CS100

2nd - the serial number was initial not pointing to the serial number of the CCS100 that we are using. I ran the C program to find the seral number which is M00445812.

After making such changes there is still error in the program. Through the code the I have written to test; I have found out that it is not an issue with connecting the CS100 through the program. Thus, deeper understanding of the library and code is needed to be done. It could also be an issue with the reference file Thorlab.ccs.interop and thus I have emailed their technician for advice.

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```csharp
using System;
using System.Text;
using Thorlabs.CCS_Series;
namespace ConsoleApp2
{
    class Program
    {
        private const string Resource_Name =
"USB0::0x1313::0x8081::M00321368::RAW";


        static void Main(string[] args)
        {
            TLCCS tLCCS = new TLCCS(Resource_Name, true, true);
            TLCCS CCS100 = tLCCS;
            CCS100.identificationQuery(new StringBuilder(256), new StringBuilder(256),
new StringBuilder(256), new StringBuilder(256), new StringBuilder(256));
            Console.Write("test");
        }
    }
}
```