**Year 2 Project (ELEC222/273) – *Supervisor meeting – Week 1***

Date: 30.01.2020 Supervisor: Dr.Zachariades Christos

Project Title: Frequency Downconverter

|  |  |  |
| --- | --- | --- |
| Student Names  /Attendees: | 1.Yidi Song | 2. Yimian Liu |
| 3. Boyao Yang | 4.Weizhou Wen | 5. |

Summary of week’s activities:

• The general goals were discussed. For the first three weeks, the general design should be accomplished. Allow two weeks for surface mounting and PCB fabrication.

• Clarify the division of responsibility.

• Install relevant software.

• Consult relevant reference material.

Problem, issues and concerns:

• The band pass filter at input need to design by ourselves but it is difficult to design.

• Design the output impedance to 50 ohms is also a challenge.

• The design of output bandpass is to some difficult.

Tasks for next week/Actions for next meeting:

Finish the design and simulation circuit and absolutely solve the problems above.

Supervisor use only

Progress Assessment: □ Unsatisfactory □ Satisfactory □ Good

Comments/Recommendations:

Supervisor Signature:

**Year 2 Project (ELEC222/273) – *Supervisor meeting – Week 2***

Date: 06.02.2020 Supervisor: Dr.Zachariades Christos

Project Title: Frequency Downconverter

|  |  |  |
| --- | --- | --- |
| Student Names  /Attendees: | 1. Yidi Song | 2.Boyao Yang |
| 3.Yimian Liu | 4.Weizhou Wen | 5. |

Summary of week’s activities:

1. Learn how to use Altium Designer.
2. Building Schematic and PCB libraries.
3. Packaging the components that included in the library.
4. Determined the circuit diagram except the part of IF BPF.

Problem, issues and concerns:

1. Cannot simulate the circuit because of the lack of SIM model LT5512.
2. Questions about the connector plugs.
3. Necessity of PCB simulation.
4. AD&ADS || ADS or…

Tasks for next week/Actions for the next meeting:

1. Complete the circuit simulation.
2. Finish circuit design.
3. Second components purchase.
4. Finish the first draft of PCB.

Supervisor use only

Progress Assessment: □ Unsatisfactory □ Satisfactory □ Good

Comments/Recommendations:

Supervisor Signature:

**Year 2 Project (ELEC222/273) – *Supervisor meeting – Week 3***

Date: 13/02/2020 Supervisor: Dr.Zachariades Christos

Project Title: Frequency Downconverter

|  |  |  |
| --- | --- | --- |
| Student Names  /Attendees: | 1. Yidi Song | 2. Boyao Yang |
| 3. Yimian Liu | 4. Weizhou Wen | 5. |

Summary of week’s activities:

1. Learned the basic code of LaTeX and how to use the Git control system.
2. Learned the PCB wiring and layout, and completed the PCB wiring of the 0.0.1 version of the circuit.
3. Redesign schematic.

Problem, issues and concerns:

1. Balun reverse.
2. The impedance balance at LO part.
3. Confuse about the DC and AC impedance on spec.

Tasks for next week/Actions for the next meeting:

1. PCB design.
2. Circuit simulation.

Supervisor use only

Progress Assessment: □ Unsatisfactory □ Satisfactory □ Good

Comments/Recommendations:

Supervisor Signature:

**Year 2 Project (ELEC222/273) – *Supervisor meeting – Week 4***

Date: 20/02/2020 Supervisor: Dr.Zachariades Christos

Project Title: Frequency Downconverter

|  |  |  |
| --- | --- | --- |
| Student Names  /Attendees: | 1. Yidi Song | 2. Boyao Yang |
| 3. Weizhou Wen | 4. Yimian Liu | 5. |

Summary of week’s activities:

1. PCB Design.
2. Ethic and sustainability report writing.

Problem, issues and concerns:

1. Not sure about the submission procedure.
2. Some questions about sustainability.

Tasks for next week/Actions for next meeting:

1. Poster design.
2. Blog and log book classification.

Supervisor use only

Progress Assessment: □ Unsatisfactory □ Satisfactory □ Good

Comments/Recommendations:

Supervisor Signature:

**Year 2 Project (ELEC222/273) – *Supervisor meeting – Week 5***

Date: 27/02/2020 Supervisor: Dr.Zachariades Christos

Project Title: Frequency Downconverter

|  |  |  |
| --- | --- | --- |
| Student Names  /Attendees: | 1. Yidi Song | 2. Boyao Yang |
| 3. Weizhou Wen | 4. Yimian Liu | 5. |

Summary of week’s activities:

1. Submit PCB files to workshop.
2. Finish and submit sustainability report.
3. Propose an outline of poster.

Problem, issues and concerns:

1. How to prepare the presentation.
2. The difference between log book and blog.

Tasks for next week/Actions for next meeting:

1. Test the product with High-Frequency signal generator and spectrum analyzer.
2. Finish the design of poster before Monday.
3. Prepare for the presentation.
4. Classify and submit the blog.

Supervisor use only

Progress Assessment: □ Unsatisfactory □ Satisfactory □ Good

Comments/Recommendations:

Supervisor Signature: