

**Homework 1**

Using Google as a resource or otherwise, explain in detail how the following four applications of electromagnetic waves (also commonly called microwaves) work:

- i) RF identification
- ii) Radar altimeter commonly used in planes for help with landing under visibility challenged conditions
- iii) RF pulse radars
- iv) Microwave ovens

Your explanation should consist of about two pages in length double spaced typed of technical description for each application. Make sure to find out the frequencies of operation and microwave power levels involved in each of these applications. Also make sure to include as many drawings or photographs as you feel essential to illustrate the applications.