

## **Proposed topics for the final projects**

October 5, 2006

Choose 3 topics and indicate your preference, e-mail to [jay.sing@gmail.com](mailto:jay.sing@gmail.com) before **5 p.m. October 12**. (Topics assigned based on first come first serve)

- [1] Principles and applications of phase arrays (i.e. radar antenna)
- [2] Optically controlled microwave switches and phase shifters
- [3] The evolution and current status of PHEMT technology
- [4] Status of GaAs Industry
- [5] Principles of GPS and GPS receiver
- [6] Principles and status of RFID
- [7] DBS systems
- [8] Anti-collision radars
- [9] Transmission of microwaves for inter-satellite
- [10] Tracking of communication satellite
- [11] Passive devices for MIC/MMIC
- [12] Microwave oscillators
- [13] Microwave filters

Proposed approach:

[1] Carry out literature search for review papers on your topic. Books or tutorial literatures may be included in the search. Suggested sources include: IEEE publications, Microwave Journal, Wireless Journal and McGill library collection.

[2] Identify at least 5 papers, books or articles most relevant to your activities. Submit a copy of the papers to [jay.sing@gmail.com](mailto:jay.sing@gmail.com) by **5 p.m. October 26.**

[3] Read the papers and relevant references cited in these papers. Collect and read more information and papers.

[4] Prepare the Final report in *power point format (.ppt)*. It is recommended that the number of slides in your power point report be more than **60 pages**. Please indicate the sources of figures, tables etc. on each page.

[5] Provide a complete reference list at the end of the power point file.

[6] Select about 15 slides for the final presentation (time will be posted separately).