## Communication System Exploration

This project is a semester-long, team experience. Each team selects one communication system that they would like to know much more about. For that system, they will:

- ❖ Analyze the system to determine how it operates
  - ✓ From signal generation, modulation, propagation, reception, demodulation and interpretation
  - ✓ Identify the current stakeholders and their needs and motivations
- Research why the system was created and when it was first put into operation
  - ✓ Were the stakeholders and their motivations the same as modern day?
- Predict what changes/improvements are coming up in the next 10 years
  - ✓ Justify these predictions (evidence, sources, etc.)

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### Skillset Objectives

- Demonstrate the ability to work effectively in groups to analyze electronic communication circuits.
- For various modulation techniques, be able to analyze and evaluate electronic communication systems from generation to propagation to reception.

### Mindset Objectives

- Observes trends about the changing world with a future-focused orientation/perspective. (curiosity)
- Identify and evaluate sources of information. (connections)
- Identify the needs and motivations of various stakeholders. (value)
- Be able to teach and learn from peers. (collaboration)
- Produce effective verbal presentations. (communication)

# Communication System Exploration

- Deliverables and Assessment
  - Initial proposal (formative assessment and guidance)
  - Presentation outline (formative assessment)
  - 1st draft presentation (formative, dry run for instructor)
  - Final presentation/demo (summative, peer reviewed)
  - Reflection
    - Teamwork functioning (formative/summative)
    - myCourses reflection (formative)
- Deployment
  - Primarily out of class with some class time devoted at the beginning to set-up the project, in the middle to check-in with the entire class and at the end for presentations