

**Project Title:**

Design of a 1200 Baud Phase Modulated Telephone Modem

**Team Members:**

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**Faculty Advisor:** Dr. Elizabeth Thompson

**Area:** Electrical Engineering

**Sponsored by:** IPFW Department of Engineering

Data transmission via the application of telecommunications is an essential part of today's technological world. This project was proposed to us by an engineer at Raytheon, and it serves to demonstrate the design and implementation of a moderately inexpensive 1200 baud phase modulated telephone modem that is capable of operating over a plain-old-telephone-system (POTS) interface by dialing out DTMF touch tones and establishing connection with another terminal. It should utilize various modulation protocols and error detection and correction methods to successfully transmit and receive a small data file over the telephone network.