**Problem:**
In the realm of competitive cycling, measuring the power that a cyclist outputs is a necessity for effective training. However, existing equipment for this purpose is extremely expensive and requires a new crankset.

**Background**
Power meters exist in the market but cost $1000 or more. On top of such prices, the measurements from this equipment are inaccurate and require specialized cranksets.

**Project History**
- Determined power calculations from crank set and method of applying strain gauges to a crank set
- Transmitted power data collection to place on printed circuit board
- Began writing the code for power calculations and communication with ANT+ devices
- Utilized development software to establish communication with PC for simulated data transmission

**Benefits**
Lower costs and being able to use current equipment will make power meters more accessible for cyclists.

**Objectives**
- Establish communication between the circuit board and Garmin unit using the ANT+ chip
- Design new universal housing unit
- Develop a high level interface for the software and install a port for future upgrades

**Future Tasks**
- Establish communication with Garmin unit
- Create compact circuit
- Further improve housing design for universal use
- Develop a way to harness power output to remove use of batteries in the circuit

**Teams and Work Flow**
- **Electrical**
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  - Jerry Wisniewski
- **Computer Science**
  - Mike Fabian
  - Preston Andrews
  - Mike Dvorak
- **Mechanical**
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