Electrical Engineering Capstone Project Ideas

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Finding ideas for your engineering capstone project can be challenging. Here are some ideas that you may find useful:

1. **Off-grid refrigerator**
   - Create a refrigerator that runs on solar and wind power.

2. **Smart greenhouse**
   - Design a greenhouse that can extend the growing season.

3. **Software-defined radio**
   - Develop a radio that can be reprogrammed for different applications.

4. **Insulin dosimeter for pets**
   - Create a device that monitors and adjusts insulin delivery for pets.

5. **Ionization breakdown of CO2**
   - Study the breakdown of carbon dioxide in the presence of ionizing radiation.

6. **Vehicle emissions reduction**
   - Develop a system to reduce vehicle emissions from engines.

7. **Detector for underground cable faults**
   - Design a system to detect faults in underground cables.

8. **Solar and wind-powered irrigation system**
   - Create an irrigation system powered by solar and wind energy.

9. **Efficient solar and wind-powered desalination system**
   - Develop a desalination system that uses solar and wind power.

10. **E-Bike Automatic Speed Controller using Arduino & Gyroscope MPU6050**
    - Build an E-Bike speed controller that uses Arduino and a gyroscope to maintain the desired speed.

These ideas are just a starting point. You can modify them or combine them to create a project that aligns with your interests and capabilities. Remember to consult with your instructors and peers to refine your ideas and ensure feasibility.