



TPSP Student Samples
Middle School: Grade 6
Pursuit of Passion: Bluetooth Technology

Blue Tooth Technology: Take a bite out of your electric bill

Many young children and adults forget to turn off lights or electronic devices in their homes and that negatively impacts our green footprint. Thousands of dollars each year are wasted because of lights and electronic devices that are left on in vacant rooms. Many people such as myself, have wished for an automatic light switch with the clap of our hands.

To address this problem, my mentor and I have created a Bluetooth controlled outlet. This invention may save millions of dollars and helps control energy costs in vacant rooms. The outlet is controlled by Bluetooth (wireless protocol) so that a device inserted into the outlet can be automatically controlled by a smart phone. This Bluetooth technology will be in the homes of the future and it will make it easier to turn on/off light switches, home appliances, and more importantly help save money in the home.

In my vision of the future, I walk through my house and the Bluetooth signal from my smart phone will turn on lights as I enter rooms, and turn off lights as I exit another. Additionally, my favorite music will turn on and off as I enter my bedroom. Not only will this save my family money, it will improve our safety and provide a unique customized experience that I can design.

From experience in my home and from research, I have concluded that over 20 hours of electricity is wasted each month in vacant rooms. This has caused many families to lose money that could have been spent on food or clothing.

In conclusion, with the Bluetooth controlled outlet; "we can help take a bite out of your electric bill." If each home could save 10\$ a week on their electric bill, think about how much money will be saved across the whole of Sienna Plantation!

