Sustainability of Technology

Jacob Macio
Andrew Moyer
Connor Shillady
Taylor Varner
Taylor Varner

- My family is my first priority
- work overseas- engineers without borders
- Electrical engineering degree- and work with sustainable energy
- I am on the penn state boxing team- coach in the future
- Economically stable future with decent job and investments
- politically I am an independent and I don’t plan on being too involved with them
From gas to electric

- Electric vehicles convert 59-62% of energy to use
- Gas vehicles only convert about 17-21%
- Electric vehicles emit no tailpipe pollutants
- Electricity is a domestic energy source - making America a more sustainable country and less dependable on other nations
- Sustainable economy because when using electric vehicle you get tax refunds
Connor Shillady

- I hope to earn a Bachelor’s degree in Civil Engineering, and may continue on to earn a Master’s degree or a Doctoral degree.
- I would eventually like to get married and have at least a boy so I can get him into Boy Scouts, as Scouting was very important to me.
- I am a conservative person at a moderate to strong level.
- I like marksmanship sports and swimming.
Major Technologies in Medicine

- Less Invasive Surgeries
- HPV Vaccine
- Bionic Eye
- Prosthesis
- Hearing Aid
Life Expectancy Over Time with Prediction of Future
Andrew Moyer

- I plan on getting a degree in chemical engineer, hopefully in the specifics of fuel and energy or fall back on mechanical engineering.
- My plans after college is to find a good sustainable job
- I am heavily republican but see myself as a moderate.
- I hunt and watch sports, mostly football. I played football and a year of rugby during high school.
Genetically Modified Foods

Pro (based on the argument on banning GMO from Hawaii)

- story follows a board member named Mr. Gregor Ilagan
- Helped saved farmers growing the papaya from disease
- there are no health risks shown in studies
- opponents are just worried about big business, not the truth
- every single scientist on Hawaii was on the side of GMO, genetically modified organisms
- GMOs were actually very helpful
- Every attempt to make them look harmful was proved wronged by scientists citing experiments and proved they were helpful to the world
- GMOs helped with increased crop yield and increase the amount of vitamin A in rice.
Jake Macio: The most important things in my life

- I plan to continue to stay close to my friends and family. I also plan to eventually get married and have kids.
- I would like to make enough money to provide for my family and still be able to buy nice things such as a house, cars, and vacations.
- I plan to major in either chemical engineering with a concentration on energy and fuels or nuclear engineering.
- I enjoy playing sports and lifting weights.
- I plan to vote in the future, but I’m not very interested in politics.
Nuclear Power

- Creating new energy sources
- Improved designs for reactors are constantly being made
- Provided nearly 20 percent of all U.S. electricity in 2012
- Over 100 reactors in the U.S. alone
- One of the most efficient ways to produce clean-air energy
- Prevented 569.7 million metric tons of carbon dioxide emissions
- Uranium fuel is used to create energy
- One uranium fuel pellet creates as much energy as one ton of coal
- Used fuel rods are stored in a environmentally safe storage system
- Also has economic benefits
- Production costs are cheaper than coal and natural gas plant
From gas to electric
http://www.fueleconomy.gov/feg/evtech.shtml

**Advances in Medicine**
http://www.nytimes.com/2014/01/05/us/on-hawaii-a-lonely-quest-for-facts-about-gmos.html?_r=0
http://www.eoearth.org/view/article/153596/

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**Nuclear Power**