Team Trident

Scott Licari
Daniel Richards
Isabela C. Madinabeitia
Judson Kibagendi
Scott 732-770-1048

Personal- to contribute positively to society.

Work/Occupation- work for a big well known company and eventually becoming the CEO of my own engineering firm and project teams. Build and design car engines, jets, airplanes, and rockets.

Social life- immediate circle of friends/family- always stay as close as possible personally not physically.

Material life- Big house, nice cars, lots of land. MONEY $$$$$

Recreation/avocation- Project cars, travel the world.

Political life- Conservative, possibly run for a political party and see where that takes me.
Daniel Richards 570-955-7494

Personal-continue being content with myself through furthering my education
Social-move west
Material-purchase cars
Work-get a job working on cars
Recreation-tune cars
Political-
Isabela C. Madinabeitia 407-451-1266.

→ **Personal:** Be happy and proud of what I have accomplished. Venezuelan and Catholic.

→ **Social:** Continue having fun with my friends and family. Trust and honesty.

→ **Material:** House of my dreams.

→ **Work:** Work in a recognized company. Good salary.

→ **Recreation:** Partying and watching soccer.

→ **Political:** Against the current government. Maybe someday work in politics to help the country develop and decrease poverty.
Judson Kibagendi 570-972-6622

Personal: Graduate Penn State with an Engineering degree and continue my education
Social: Make friends through experience. Keep family close
Material: Own a house. Have a good car
Work: Work at a respected company on the east coast
Recreation: playing sports with a couple of friends. preferably basketball
Political: Not much. Probably within local community
SUSTAINABILITY OF TECHNOLOGY

“Life is getting better through the development of technology”
Sustainability of Technology

Whether anyone likes it or not, humans have taken over the world and technology continues to grow everyday.
Along with the growth of technology comes survival and sustainability. We must learn to adapt our technology in order to stay alive. The earth is in OUR hands.
History of Human’s first steps toward Sustainability in Automotives

- Air pollution was caused by humans primarily beginning in the industrial revolution with the opening of factories.
- In 1970 the United States realizes automobiles are taking a huge role in air pollution and 1970 Clean Air Amendments are put into effect.
  - With polluted air humans would not be able to survive. Regulations are put into effect beginning the movements for human sustainability in the automotive industries.
- For over the last 40 years the advancements in automotive technology continue to rise and make for a better, more clean way of transportation.
- By 1996 engineers were able to design cars using alternative fuels such as methanol, ethanol, and natural gas which burn cleaner than normal gasoline and do not destroy the ozone quite as much.
- By 1997 Toyota had developed the first gas-electric car, known as the first actual Hybrid. A car with double the fuel efficiency of contemporary vehicles. We now know this car as the Prius.
The first wind turbine farm was built in 1980 in New Hampshire. Many individuals think of wind energy as a source of 100% profit, but they are wrong. Wind turbines’ reliability and the amount of wind are issues with its efficiency. Recent advancements in the bearings used in wind turbines have created a solution to these problems. Previously, the bearings underwent water exposure, causing corrosion, and an increased friction. Now bearings are coated with a 2mm thick coating which prevents them from corroding, increasing the efficiency of wind energy. This increase in wind energy aids our society in the push towards sustainability.
Genetically Modified Crops.

• Farmers have adopted this technology since 1996.

• Genetic Engineering techniques.

• Provide ecological benefits.

• Introduce a new trait to the crop, in order to include resistance to certain pests and diseases, or even including the nutrient profile of the crop.
Solar Power for Energy Capacity

- Renewable energy source
- Early Development of solar panels began in early 1860’s
- Development of solar panels accelerated between 1970-1983 due to fear of natural resources depleting
- Converts UV rays into energy
- New study uses solar power to convert it to heat
- Solar power used as an efficient energy source
- In 2012, 41% of electricity generation came from solar power