Career-Related Education

by Madison Lucey

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School Activities

- Engineering Internship at AgWorks laboratory
- Earned Advanced Placement credits in Computer Science
- Founded Girls Who Code club chapter
- President: NHS, YAG, and FBLA
- Authored Technology Legislation Bill, PA SB 791
- College credits earned with 4.0 GPA:
  - WEB 102: Website Development
  - CIS 105: Intro to Computer Applications
  - MATH 111: Principles of Mathematics
  - BUSI 101: Introduction to Business

Application of Skills & Job Relationship

I began focusing on my career goal to become an engineer at age 15. I first used my programming skills to create a lifesaving car seat invention. At age 16, I led an engineering internship team in creating a solar powered automated plant seeder. These skills will serve as the foundation for my continued learning and are related to the career because each one has demonstrated my computer programing and engineering proficiency in real world applications. I will build on this foundation through my obtaining a BS degree in IT.

Career Research Project

I pragmatically applied my engineering skills during my internship at AgWorks. My team invented an automated plant seeder. This gave me hands on experience in the field of software engineering. As the team leader, I coordinated the effort and utilized soft skills to completely the task effectively.

The project was then successfully demonstrated in front of the entire PA House Education Committee on March 28th 2019 as shown in the image below:

I demonstrated by action how girls can make powerful contributions in the field of software engineering.