

# TEIGUE KELLY

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## EDUCATION

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### **The Pennsylvania State University**

*College of Engineering*

Bachelor of Science, Nuclear Engineering

Expected: May 2027

GPA: 3.95

Dean's List: 2/2 Semesters

## SKILLS

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|                 |            |                     |
|-----------------|------------|---------------------|
| AutoCAD 3D & 2D | SolidWorks | C++                 |
| Python          | MATLAB     | COMSOL Multiphysics |
| MS Office       | JavaScript | SQL                 |

## UNDERGRADUATE RESEARCH

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### *Solar Panel Design for Improved Efficiency*

Assistant Researcher under Dr. Kofi Adu

Penn State Altoona

September 2024 - Current

- Uses COMSOL Multiphysics to model various solar panel designs and generate absorption data
- Utilizes MATLAB to import said tables, generate Tauc plots, and output average bandgap energies of designs, allowing for calculations of solar panel efficiency

## COURSEWORK

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### *Classes*

|                                             |                                    |
|---------------------------------------------|------------------------------------|
| Physics: Mechanics                          | Physics: Electricity and Magnetism |
| Mechanical Engineering: Statics             | Programming for Engineers with C++ |
| Chemical Principles I                       | Experimental Chemistry I           |
| Ordinary and Partial Differential Equations | Communications: Effective Speech   |
| English: Rhetoric and Composition           | English: Technical Writing         |

### *Projects*

- Wrote three informative and persuasive research papers on nuclear meltdowns and nuclear energy's importance for English: Rhetoric and Composition
- Wrote a technical description of surface-level nuclear waste disposal for English: Technical Writing
- Taught a casual audience how nuclear power plants produce electricity in a detailed but easy-to-follow 5-minute speech for Communications: Effective Speech
- Collected data using lab techniques such as titration and spectrophotometry for Experimental Chemistry I