

This section shows how students can take their experience and improve the bullets into more detailed accomplishment statements.

Experiences:

Before:

Undergraduate Researcher – Shah Lab

September 2019 – Present

- Helped build a prototype sensor
- Cleaned glassware and helped the graduate students in their work
- Put together slides that were presented to the team

After:

Undergraduate Researcher

September 2019 – Present

Department of Chemical Engineering

Davis, CA

- Expedite construction of a prototype concentration sensor by analyzing ambient noise reductions compared to an old sensor, improving signal to noise ratio by 89%
- Sterilize laboratory equipment by following proper lab safety procedures to mitigate risk
- Perform daily experiments with graduate student peers by setting up procedures in the glove box and tabulating results into Excel workbooks
- Present results in comprehensible slides to 10+ professors and graduate students, procuring a \$1000 grant for the research laboratory

Before:

Process Engineering Intern

June 2021 - September 2021

Tokyo Electron Limited

Austin, TX

- Managed semiconductor processes
- Assisted in manufacturing wafers and testing them with different chemicals
- Tabulated data in Excel and coded it into graphs

After:

Process Engineering Intern

June 2021 - September 2021

Tokyo Electron Limited

Austin, TX

- Managed upstream strategies of semiconductor processes by coordinating wafer to deposition timings, increasing manufacturing efficiency by 120%
- Studied the impact of atomic layer deposition (ALD) of zirconium onto wafers and characterized the results utilizing Python
- Tabulated data from ALD deposition methods into Excel and presented created figures of the deposition efficiency to an engineering team of 20