

# Austin J. Wells

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## Summary

Motivated and inventive student of engineering currently studying at NC State University. Outside of the classroom, I am working on several self-guided projects in the areas of bionics and manufacturing technology among other things. I am an analytical thinker with much experience organizing and leading team engineering projects.

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## Education

**North Carolina State University**, Raleigh, NC Anticipated Graduation: May 2022  
GPA: 3.516, B.S. in Mechanical Engineering  
**Charles D. Owen High School**, Black Mountain, NC Graduation: June 2018  
GPA: 4.84/3.91 (weighted, unweighted) Class Rank: Top 5

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## Work Experience

**ABB LEAD Internship Program**, NC-MOMG, Marion, NC 40 hours per week, Summer 2020

- Assisted in the installation, optimization, and maintenance of factory production lines
- Organized and digitized tool crib inventory
- Integrated digital tool inventory with line setup sheets, significantly reducing production line down-time
- Fabricated tooling fixtures

**PULSTAR Reactor Operator**, NC State University, Raleigh, NC 20 hours per week 2019-current

- Operating the PULSTAR nuclear reactor (start-ups, power manipulations, shutdowns, ect.)
- Performing daily security, facility, and start-up checks as well as routine reactor maintenance
- Design of experimental facilities and reactor tools

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## Honors

**Eagle Scout**, BSA Troop 50 April 2018

- Planned, organized, and led the expansion of a river crossing on the Montreat College cross country course

**NCTIES Conference Presenter**, Raleigh, NC 2017 & 2018

- 2017: Use of Arduino in k-12 education as an introduction to coding.
- 2018: Owen HS Computer Club 3D-printed, myoelectric controlled prosthetic hand project as an example of implementing cross-discipline STEM projects in k-12 education.

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## Leadership & Activities

**BSA Troop 50**, Senior Patrol Leader (2016), Expedition Leader (2014-16), Quartermaster (2011-14)

- Organized and led troop meetings, outings, and service projects
- Organized and maintained troop inventory and its uses

**Owen HS Marching Band**, Percussion Captain (2017-18), Asst. Drum Major (2017-18)

- Performed non-field duties of drum major (discipline, leading PT, problem resolution)
- Led percussion rehearsals, instructed percussion marching, coordinated equipment logistics

**Owen HS Clubs**

- Rocketry Club, President (2017-18)
- Computer Club, Experimental Systems Head (2016-18)
- Math Team, State Mathematic Competition regional finalist (2015)

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## Skills/Coursework

**3D Modeling & CAD (Autodesk Inventor, AutoCAD, SolidWorks):** 6 years experience, highly proficient  
**Computer Programming:** MATLAB (proficient), C++ (functional)  
**Engineering Courses:** Statics, Dynamics, Solid Mechanics, Thermodynamics, Fluid Mechanics, Circuit Design  
**Engineering Advanced Study** Spring 2018

- Developed a 3d-printed prosthetic hand utilizing myoelectric control to simulate natural functionality

**NRC PULSTAR Reactor Operator License**, NCSU NRP April, 2019

- Federal license earned after the successful completion of intensive on-site training (~18 hours per week, January to April) followed by a two-day, three-part NRC examination