

# Caroline Watts

*Aspiring environmental engineer.*

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## SUMMARY

Class of 2026 at Clarksville High School. Three years of independent research on solar microgrids and STEM-education hardware: a \$200 portable solar kit field-tested at three Clarksville middle schools; an MIT THINK Scholar proposal on rural broadband + solar microgrids (semifinalist, '26); two published pieces in regional science journals. AP scholar with distinction — eight AP courses by senior year (average score 4.6). Captain of the CHS Science Bowl team (4th in state, '25). Conversational French, comfortable in Python and R for data analysis. Looking at environmental-engineering and applied-physics programs for fall '26.

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## EXPERIENCE

### Summer Research Assistant

2025-06-01 - 2025-08-09

Austin Peay State University — Applied Physics Lab · Clarksville, TN

8-week summer research role under Prof. Michael Reyes. Built a Python pipeline for cleaning raw photometer data; co-authored one internal lab memo. Conference poster session at TJAS.

### STEM Outreach Lead — Solar Kits

2024-09-01 - Present

Clarksville-Montgomery County Schools · Clarksville, TN

Designed and deployed a \$200 portable solar kit for grade 6–8 STEM classrooms across three Clarksville middle schools. Trained teachers; built the lesson plan + BOM that ships with the kit.

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## EDUCATION

### Clarksville High School

2022-08-01 - 2026-05-15

High School Diploma (expected) · AP Capstone · STEM track

Weighted GPA: 4.6 / 5.0 · Unweighted: 4.2 / 4.0. Honor Roll '23, '24, '25, '26. SAT: 1450 (720 EBRW · 730 Math). Eight APs by senior year. College: TBD (applied: Vanderbilt, Georgia Tech, Purdue, Rice, UT Knoxville).

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## AWARDS

AP Scholar with Distinction · College Board 2025

Tennessee Science Bowl — 4th in state · TN Dept. of Energy 2025

MIT THINK Scholar — Semifinalist · MIT THINK Program 2026

TN Junior Academy of Science — published author · TJAS 2026

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