

# ATHARVA B. KALE

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## EDUCATION

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### The Pennsylvania State University

**Bachelor of Science:** Mechanical Engineering

State College, PA

**GPA:** 3.32

**Scholarships:** Harvey J. Bomberger Memorial Scholarship; Broughton Scholarship in Engineering

**Relevant Coursework:** Heat Transfer, Control Systems, Thermodynamics, Circuits Design, Fluid Flow, CAD Design, Machine Design, Manufacturing Processes

## WORK EXPERIENCE

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### Amazon Inc.

June 2025 - Present

West Sacramento, CA

*Area Manager*

- Directing a 24-member team in high-volume delivery operations, achieving 100% on-time dispatch and boosting throughput by 18%
- Implementing process improvements that increased efficiency by 15% while reducing operational errors
- Partnering cross-functionally to deploy automation initiatives, enhancing coordination speed by 20%

### CITEL Laboratory

September 2024 – May 2025

State College, PA

*Research Assistant*

- Evaluated thermal performance of hempcrete blocks across 5 residential projects, achieving R-values of 0.44–0.53 m<sup>2</sup>·K/W for up to 20% greater insulation efficiency than the standard fiberglass insulation.
- Analyzed energy data to identify 25% potential savings in heating and cooling costs and a 12% boost in overall building sustainability
- Compiled a comprehensive report outlining methodology, results, and hempcrete design recommendations to enhance energy conservation by 30+ kWh/m<sup>2</sup> annually

### Amazon Inc.

June 2024 – August 2024

Syosset, NY

*Area Manager Intern*

- Assisted in managing the largest Amazon Delivery Station by volume (100,000 packages daily) in North America (DYY9)
- Delegated tasks to associates at start of each shift, supervised daily operations, and made strategic real-time decisions
- Developed a macro-enabled Excel worksheet to optimize operational processes and enhance efficiency by over 15%

## PROJECT

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### PCB-less Mouse - Logitech (Best Project Award)

January 2025 – May 2025

State College, PA

*CAD Designer*

- Designed and prototyped a PCB-less computer mouse, reducing carbon footprint by 40% and copper waste by 70% in alignment with Logitech's sustainability roadmap
- Secured 2<sup>nd</sup> place among 100+ capstone projects by delivering a fully functional proof-of-concept

## SKILLS

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**Technical Skills:** AutoCAD, SolidWorks, MATLAB, Simulink, CFD, CATIA, Abaqus, GD&T, Revit, Fusion 360, Excel (VBA), Additive Manufacturing

**Practical Skills:** Production Scheduling, Troubleshooting, Team Leadership, Supervision, Cross-Functional Collaboration, Root Cause Analysis, Safety Compliance

**Certification:** Engineering Design with Tools (May 2025), Designing for Compliance (Nov 2024)