ANDY BROWN

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EDUCATION

University of Illinois Urbana-Champaign: Industrial Engineering Major   Expected May 2026
Minors: Computer Science, Critical Film Production   GPA: 3.54
Relevant Coursework: Deterministic Optimization Models, Facilities Planning & Design, Data Structures, Data Analysis, Production Planning and Control, Stochastic Processes, Simulation Modeling, Large System Optimization

EXPERIENCE

Supply Chain & Operations LDP Intern   May 2025 - Aug 2025
Pentair   *Delavan, WI*

- Drove improvements in ERP production time accuracy by performing time study analyses and facilitating alignment between frontline operators and planning, quality, and manufacturing teams.
- Established framework for standardized production batch quantities, reducing lead time variance by over 30%.
- Participated in Kaizen events to reduce machine downtime through preventive/autonomous maintenance plans.
- Automated in-process component inspection and quality control for injection molding procedures, utilizing machine learning vision systems to reduce annual downtime by 120 hours per machine.

Summer Associate   May 2024 - Aug 2024
Clark Construction   *Indianapolis, IN*

- Developed an optimized schedule generation program for several trades by utilizing CVXPY.
- Submitted and managed contract documents, such as RFIs and value engineering propositions.
- Managed purchasing, onboarding, safety training, and job-hazard analyses for subcontractors.

Engineering Intern   May 2023 - Aug 2023
Task Force Tips   *Valparaiso, IN*

- Developed an IOT air quality monitoring system for the StationProtect.
- Increased airflow by 50% for the CrewProtect through product redesigns and testing.
- Reduced manufacturing cost and time by 30% for the AirCard.

Lab Assistant (SE 101)   Jan 2023 - Present
UIUC ISE Department   *Urbana, IL*

- Teach CAD software to engineering students by creating instructional material and providing personalized help.
- Mentor students during project presentations and checkpoints.
- Maintain and utilize the 3D printing lab for students' projects.

PROJECTS

Model Excavator Redesign: Designed a complete CAD model of a remote-controlled excavator. Improved the existing product using market research, stress analysis, and focus group insights. Modeled 60+ parts in Fusion 360 and integrated full mechanical motion.

EXTRA-CURRICULAR ACTIVITIES

DRES/Grainger Advisory Council: Serve as a representative for engineering students with disabilities. Develop practical solutions to advance support and accessibility for all students.

SKILLS

Technical Skills:	Simulation & Deterministic Modeling, Project Management, Data Analysis, LEAN
Professional Skills:	Collaboration, Cross-Functional Communication, Adaptability, Risk Mitigation
Tools & Applications:	C++, Python, ERP Systems, Excel, SolidWorks, Fusion 360, Cognex In-Sight