

OW

Olivia Wright

TACTICAL CAPACITY PLANNER



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oliviawright.me



Lexington, SC

Education

Master of Science in Business Analytics

Cornell University - Ithica, NY
SC Johnson School of Business - Class of 2027

Bachelor of Science in Industrial Engineering

Kettering University - Flint, MI
College of Engineering - Class of 2023



Bachelor of Science in Business Management

Kettering University - Flint, MI
School of Management - Class of 2023
Concentration: Technology Leadership

Skills

- Process Optimization (LSS)
- Data Analysis & Reporting
- Cross-Functional Team Collaboration/Communication
- Supply Chain Management
- Leadership & Team Development
- Microsoft Office & Power BI
- Operational Efficiency
- Machine Learning & Automation
- Adult First Aid & CPR (AED)
- Production Management
- Troubleshooting Systems

Work Experience

Tactical Capacity Planner

January 2025 - Present

Michelin North America - Lexington, SC

- Coordinates logistics and planning for earthmover tires across multiple facilities - US7 (Lexington, SC), US10 (Anderson, SC), & Vitoria (Álava, Spain)
- Responsible for balancing production constraints, integrating supply chain forecasting, and optimizing resource utilization to improve efficiency on the tactical horizon to align global demand and manufacturing capacity.

- K E Y C O N T R I B U T I O N S -

P89 Tactical Planning Tool

- Developing a standardized 18-month planning template for global facilities that incorporates mold capacity, machine constraints, facility logistics, and customer regions into drill-down waterfall charts to assess feasibility.
- Aligned multiple teams (*logistics, quality, industrial engineering*) by creating a single source of truth for tactical planning which was previously unclear.

Demand Variance Tracker

- Built an 18-week rolling forecast tool to capture week-to-week changes.
- Leveraged AI to calculate early forecast variance vs. production week, plus a rolling 4 and 12-month summation for long-term trend analysis.
- Enabled proactive responses to demand spikes (*up to 300% growth*) and uncovered backorder-driven data signal issues during week of production.

Tactical Demand Decomposition

- Integrated the new Power BI demand variance tracker with tire-dimension 'recipes' to forecast downstream raw material needs, using predictive modeling and historical trends to anticipate semi-finish supply shifts and prevent last-minute procurement issues.

Transfer Load Optimization

- Automated the monthly process of balancing production volumes across US7, US10, and VIT facilities by replacing manual allocation with an Excel Solver optimization model, factoring plant norms (*min/max stock*).
- Produced best-optimized transfer allocations that revealed year-end stock shortfalls, strengthening the case for growing inventory into 2026.

FYT/LOGIN Inventory Management Implementation

- Partnering with corporate process experts to roll out a flow & traceability system to enhance material visibility, forklift request efficiency, and high-runner prioritization by defining material flow process, rules, storage/staging locations, and Kanban-based replenishment using FEFO principles.

Operations Manager

EWIE Group of Companies (EGC) - Columbus, IN

July 2023 - December 2024

- Led the tooling and chemical commodity teams, managing \$11M in inventory and a team of twelve direct reports.
- Closed over \$444K in tooling/abrasive-related cost savings for 2024, as well as secured over \$500K in upcoming proposals for 2025.
- Drafted and presented DMAIC analysis panels to senior executives, supporting data-driven decisions on all commodities.
- Developed standard processes for the tool room and resolved \$30K in aged material ensuring quarterly review with customer.
- Mended relationships with engineering teams and improved meeting cadences and reporting processes between internal/external.
- Converted over \$200K in inventory to Vendor-Owned Inventory (VOI) and addressed historical pricing discrepancies.
- Took on additional responsibilities as Operations Manager overseeing multiple customer sites and teams to align business processes.

Process Improvement Co-op

EWIE Group of Companies (EGC) - Various Locations

August 2021 - June 2023

Winter 2023 - Cummins Fuel Systems (FSP) - Columbus, IN

- Led a project optimizing vendor-managed and consignment inventory, reducing outstanding excess inventory by \$250K.
- Transitioned 120 items to vendor-owned inventory, which allowed for us to increase efficiency, streamline ordering and processes.
- Generated over \$41K annually in additional profit by leveraging global vendor discounts optimal purchase/quantity breaks.

Summer 2022 - Caterpillar (LL) - Peoria, IL

- Collaborated with a newly formed site team to streamline open orders, customer/vendor relations, and improve on-time delivery.
- Established baseline usage reporting for active inventory, providing a foundation for future inventory management and optimization.

Winter 2022 - ZF - Oakwood, GA

- Cleared over \$80K in material from the non-conformance shelf, resolving long-standing issues and improving inventory accuracy.
- Mentored the crib supervisor and attendants, providing guidance on open orders, expediting processes, and vendor on-time delivery.
- Improved vendor relations by aligning real-time data and expediting delayed orders to maintain production schedules.

Summer 2021 - SKF - Flowery Branch, GA

- Conducted an extensive crib crawl to assess and document current inventory, ensuring accurate records for new contract.
- Installed and integrated a new RFID AutoCrib machine to mitigate inventory discrepancies and reduce cycle count gains and losses.
- Supported a new customer, ensuring smooth operational transitions for all parties involved with the new assumption of business.

Data Analytics Co-op

DTE Energy - Washington, MI

January 2021 - March 2021

Winter 2021 - Gas Transportation & Storage Operations (TS&O)

- Performed comparative data analysis between Excel reporting and Power BI reports, identifying and resolving discrepancies in SQL.
- Rewrote standard documentation and work instructions for Excel reports, improving clarity and efficiency.
- Developed macro-enabled templates to automate weekly reporting processes & streamline data collection for multiple plants.

Cost-Savings Co-op

EWIE Group of Companies (EGC) - Dearborn, MI

November 2019 - March 2020

Winter 2020 - Ford Engine Plant

- Spearheaded the standardization of certain taps across multiple sites, leading to mass cost savings and efficiency improvements.
- Partnered with Emuge to develop a "Best" tool, optimizing tool life and benchmarking performance for future implementations.
- Analyzed detailed drawings and collaborated with tooling engineers to understand tooling geometry, application, and failures.
- Developed a comprehensive dynamic control plan to track tool usage and performance, enabling data-driven decisions.

Data Analytics Co-op

United Parcel Service (UPS) - Livonia, MI

January 2019 - October 2019

Summer 2019 - Transportation Excellence

- Implemented macro-enabled Excel reports for daily and weekly analysis of performance indicators across the Great Lakes Region.
- Analyzed hub processing demand to determine optimal staffing needs for the post-peak season, ensuring operational efficiency.
- Redesigned existing reports to provide higher-level insights into hub performance, improving the decision-making processes.
- Prepared documentation and updated reporting for the annual facility audit, ensuring compliance with operational standards.

Winter 2019 - Package Operations Excellence

- Led initiatives related to Local Carrier planning and truck loading efficiency, improving resource allocation and reducing costs.
- Self-taught Excel and VBA to optimize and automate manual reporting processes, leading to significant time savings and improved data accuracy while gaining advanced understanding to VLOOKUPS, INDEX, MATCH, SUMIF, COUNTIF, Conditional Formatting, etc.

Academic Projects & Contributions

The Financial Impact of Consignment vs. Vendor-Managed Inventory

Winter 2023

Undergraduate Senior Thesis | EWIE Group of Companies & Cummins Fuel Systems Plant

- Researched cost-benefit trade-offs of vendor-managed vs. vendor-owned inventory strategies in automotive supply chains.
- Modeled the impact of price breaks and bulk purchasing aligned to monthly consumption levels, highlighting potential savings.
- Analyzed inventory turn metrics and holding cost reductions when shifting stock responsibility to suppliers under VMI.
- Standardized an algorithm and automated report to calculate min/max inventory levels in order to avoid over-ordering.
- New calculations were used to encourage vendors to offer long-term (6-12 month) price deals, directly influencing sourcing decisions.
- Findings directly resulted in transitioning 120+ items from VMI to VMI, creating ~\$750K of inventory held by EWIE on Cummins' behalf and projecting an additional \$120K in annual *profit* potential from taking advantage of logical price breaks.

Read More: <https://oliviawright.me/2023/06/17/undergraduate-senior-thesis/>

Cybex Car Seat & Mobile App - Project Proposal

Spring 2023

Innovation Development | BUSN 304

- Hypothetical start-to-finish development of a smart baby car seat with mobile app integration, a project proposal for real-time safety monitoring (*temperature, motion, emergency alerts*) inspired by the Cybex Sirona M Convertible Car Seat.
- Considered baby seat design, impact protection, sensor-app integration, interface design, and privacy compliance.
- Led the end-to-end design of the mobile app, creating an intuitive interface with multi-user tracking, safety notifications, and installation tutorials that increased usability and consumer trust

Read More: <https://oliviawright.me/2023/06/18/cybex-baby-car-seat-mobile-app-development/>

WKUF-LP 94.3 - Flint Radio Revitalization - Business Proposal

Fall 2022

Business Consulting Project | MGMT 484

- Conducted a comprehensive organizational analysis of Kettering University's student-run radio station to identify operational, financial, and engagement gaps, and designed marketing and recruitment strategies, including social media campaigns and event promotions, to expand listener base and attract new student members.
- Proposed diversified revenue models (*sponsorships, campus partnerships, and fundraising events*) to ensure long-term financial sustainability, and recommended restructuring of leadership roles and workflows to improve accountability, retention, and quality.
- Delivered a professional business proposal with actionable steps that positioned WKUF for stronger impact and long-term growth.

Read More: <https://oliviawright.me/2022/12/18/wkuf-lp-94-3-flint-business-consulting/>

Android Industries Rear Axle Assembly Line - Ergonomic Assessment

Fall 2022

Senior Capstone Group Project | IME 454

- Led a capstone consulting project for local Flint manufacturing company, conducting a full ergonomic evaluation of the rear axle assembly line to identify operator strain and process inefficiencies as operations grow, applying industrial engineering methods (*3DSSPP, ART Tool, and time-motion analysis*) to assess workstation risks and quantify ergonomic stressors.
- Developed data-backed recommendations including fixture redesigns, workstation layout adjustments, and material handling improvements to reduce operator fatigue and injury risk, and presented findings to company leadership, outlining both short-term improvements and long-term investment opportunities to enhance productivity and workforce safety.

Read More: <https://oliviawright.me/2022/12/16/rear-axle-line-ergonomic-assessment/>

Pair Inc. Startup Technology - Business Proposal

Spring 2022

Distributive Education Clubs of America (DECA) | Entrepreneurship - Starting a Business

- Developed and pitched a startup business proposal for nano-tracking wireless earbuds to judges at the State and International Level of competition acting as investors, simulating a real-world venture capital pitch.
- Designed a comprehensive business plan covering market analysis, financial forecasts, manufacturing strategy, and product strategy, showcasing feasibility and profitability within three years and securing strong evaluations in a competitive pitch environment.
- **2nd Place Finalist at International Career Development Conference (ICDC) in Baltimore, MD.**

Read More: <https://oliviawright.me/2022/04/10/pair-inc-startup-technology/>

Extracurricular & Volunteer Experience

Society of Women Engineers (SWE)

Work Group Lead (2024); CLI Participant (2023); Section President (2019–2023)

October 2018 - Present

Kettering University B-Section Collegiate SWE - Flint, MI

- Led 40+ member section, coordinating professional development, corporate partnerships, fundraisers, and STEM outreach events.
- Secured funding for members to attend annual WE conferences; submitted annual reports and financials ensuring sustainability.
- Designed and led STEM outreach programs including the Inspiring Future Women Engineers (IFWE) parent-daughter workshop.
- **Outstanding Collegiate Member Award Recipient - 2023**
- **Collegiate Guiding Star Award Recipient - 2022**

Southwest Central Indiana Professional SWE - Columbus, IN

- Hosted the "WOW! That's Engineering" at Ivy Tech to introduce K-5 Girl Scouts to STEM concepts through hands-on activities.
- Helped organize professional networking events focused on challenges and opportunities for women in STEM.
- Authored and edited content for the Adult Advocate Newsletter, distributed to SWE's professional membership.
- **WE24 Listen & Learn Speaker: "Conquering Your Co-op: How to Maximize Success and Navigate Transitions"**

Professional Member at Large - South Carolina, USA

- Serve as a reviewer for WE Annual Conference and local speaking proposal submissions for session content.
- Volunteer judge for annual collegiate, professional, and SWENext Award nominations.
- **WE25 Listen & Learn Speaker: "Storytelling for Engineers: Simplifying Complex Concepts"**

Alpha Pi Mu (ΑΠΜ)

Chapter President (2022)

December 2021 – Present

Order of the Engineer

December 2021 – Present

Institute of Industrial & Systems Engineers (IIE)

Vice President (2022); Secretary (2021)

September 2021 – Present

Alpha Phi Omega (ΑΦΩ) - Service Fraternity

Vice President of Service (2022); VP of Public Relations (2021)

April 2021 – Present

- Launched a 'Trunk or Treat' community outreach event, coordinating volunteers and resources from multiple campus clubs; drew 2,000+ participants in its first year and established it as an annual, university-backed tradition.

Alpha Gamma Delta (ΑΓΔ)

VP of New Member Experience (2022); VP of Marketing (2021)

May 2019 – Present

Lives Improve Through Engineering & Science (LITES) Program

Assistant Camp Director (2022-2023); Head Mentor (2020-2023); Mentor (2019)

May 2019 – July 2023

Collegiate DECA

VP of Communication (2021); Vice President (2020); Secretary (2019)

May 2019 – June 2023

- **Placed 2nd internationally at ICDC (2022)** in Entrepreneurship; represented Kettering University at multiple national competitions.

Resident Assistant - Kettering University

Head RA (2021–2022); Front Desk Manager (2020-2022)

May 2019 – June 2022

- Live-in student leader for Thompson Hall at Kettering University responsible for RA staff development, duty scheduling, and hall operations, ensuring a safe and supportive community for 300+ residents. **Served as Interim Director of Residence Life in 2022.**

CILE 101: First Year Foundations [Integrated Learning Exp]

Teaching Assistant / Student Mentor (2019-2023)

May 2019 – June 2023