

Prajwal Srikanth

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OBJECTIVE

Driven Systems Engineer seeking full-time position in simulation and controls development. Promoted twice in 3 years at Cummins Inc., delivering \$30M+ in cost savings across 8 product programs through Design-to-Value optimization and hybrid power system innovation. Currently pursuing MEng in Systems Engineering at Cornell University (company-sponsored) to deepen expertise in AI-driven simulation and advanced system architecture.

EDUCATION

Cornell University <i>Master of Engineering, Systems Engineering</i> <i>Sponsored by Cummins Inc.</i>	Ithaca, NY Aug 2025 – May 2027 GPA: 4.3/4.0
Embry-Riddle Aeronautical University <i>Bachelor of Science, Aerospace Engineering</i> <i>Minors: Systems Engineering & Applied Mathematics</i>	Daytona Beach, FL Aug 2017 – Dec 2021 GPA: 3.64/4.0

WORK EXPERIENCE

Cummins Inc. <i>Systems Engineering Technical Specialist</i>	Indianapolis, IN Aug 2025 – Present
<ul style="list-style-type: none">Serve as Product Owner for Design-to-Value platform deployed on Azure Cloud (Databricks); lead cross-functional Agile teams to reduce product complexity and optimize cost-benefit tradeoffs across multi-million-dollar global programs.Develop deep-learning algorithms (LSTM neural networks) in MATLAB to predict generator transient response behavior, improving system modeling accuracy and accelerating validation cycles for power systems in off-highway applications.Architect round-trip efficiency optimization algorithms for hybrid mining vehicles using MATLAB to develop controls, maximizing battery utilization across mining duty cycles while balancing fuel economy, emissions, and operational constraints.Built Retrieval-Augmented Generation (RAG) systems using LangChain and Streamlit to streamline Design-to-Value workflows.Served as AI Hackathon Coach enterprise-wide, mentoring cross-functional teams to develop and deploy AI pilot programs	
Senior Electronic Systems Engineer	Oct 2023 – Aug 2025
<ul style="list-style-type: none">Cut new-product complexity by \$30M by designing & rolling out a Design-to-Value optimization tool; trained 50+ engineering & marketing professionals across U.S. & China facilities, establishing global standard for cost-benefit analysis.Boosted hybrid-haul-truck fuel savings 20% via control-algorithm redesign; raised Technology Readiness Level (TRL) of early-stage concepts from 3 → 5, accelerating time-to-market for next-gen hybrid mining platforms.Upgraded generator-engine model fidelity by ~15% (vs. test data) while managing & mentoring 1 intern + 2 Purdue research students; delivered 3 tool-enhancement projects expanding simulation capabilities across business unit.	
Systems Engineer – Full-Time	Jan 2022 – Oct 2023
<ul style="list-style-type: none">Developed micro-grid & mining-vehicle models (MATLAB/Simulink) accurate to $\pm 5\%$ of field data, cutting physical test-cell time by 40 hrs/program and enabling rapid design iteration across multiple product lines.Led cross-site task force that eliminated synchronous-machine voltage spikes; ensured model availability to complete critical product purchase by major customer on aggressive timeline.Authored micro-grid simulation handbook adopted as Business Unit standard and cited in 6 internal programs; certified as Cummins Systems Engineer through Systems Engineering Certificate Program (SECP).	
Systems Engineering Intern	May 2021 – Aug 2021
<ul style="list-style-type: none">Decomposed IMO Tier III & EPA Tier 4 requirements into program-level specifications for new marine/O&G diesel platform; executed iDFMEA on 80+ failure modes, influencing aftertreatment architecture selection.Developed diagnostics for industrial engine program ensuring compliance reporting for Tier 2 & Tier 4 certifications.	
Collins Aerospace <i>Software Engineering Co-op</i>	Cedar Rapids, IA Jun 2019 – Dec 2019
<ul style="list-style-type: none">Developed DO-178C-compliant flight-deck software and automated test rigs for Advanced Flight Deck department on Government Programs (Airbus, Embraer), cutting verification cycle time by 30%.	

LEADERSHIP & SERVICE

Chair, SAE Off-Highway Decarbonization Committee (2024) – organized two industry panels on AI-driven simulation.
Lead, Girls Inc. STEM Outreach – plan quarterly hands-on projects for 30+ girls (ages 7–12).
Member, INCOSE Indiana Chapter – share Cummins systems-engineering best practices with Eli Lilly, Rolls-Royce, Purdue.

TECHNICAL TOOLBOX

Programming & Tools: MATLAB/Simulink, Python (Scikit-learn, Pandas, NumPy), C++/C#, Git/GitHub, Jira, Databricks, Azure Cloud, Streamlit, LangChain
Engineering & AI: Micro-grid & Vehicle Simulation, Hybrid Controls, Deep Learning (LSTM, Neural Networks), Reinforcement Learning, Optimization (Genetic Algorithms, Monte Carlo), RAG Systems, Intel DOORS
Methodologies: Agile Development, Product Owner, iDFMEA, Requirements Engineering, Systems Engineering, V&V
Certifications: Cummins Systems Engineering Certificate Program (SECP), INCOSE Associate Systems Engineer