

Colin M. Raby

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PROFESSIONAL EXPERIENCE



CEO, President, and Co-founder of FarmMind Inc Baton Rouge, Louisiana

May 2025 – Present

- Lead a team of software engineers, AI researchers, and agricultural professionals to build and scale the world's first Agricultural Intelligence (AI) platform to optimize farming operations, minimize misuse of pesticides and herbicides, document operations, solve problems, and make regulatory compliance easy.
- Won the 2025 Pelican Cup, won the Nexus 2025 Technology Cup, Won the 2024 LSU Venture Challenge, first LSU-based finalist at the Rice Business Plan Competition, first LSU-based finalist at the Arkansas Governor's Cup.



Congressional Artificial Intelligence (AI) Specialist United States House of Representatives, Washington D.C.

May 2024 – May 2025

- Developed multiple AI-based tools to automate and augment congressional workflows, saving hours of work weekly and improving work quality.
- Engaged with congressional staff to understand their needs. Designed and successfully implemented customized AI solutions to help staffers with daily tasks.
- Organized and presented AI and technology policy briefings to congressional leaders, tailoring complex information for diverse audiences.
- Stayed abreast on advances in emerging technologies and industry trends and communicated significant developments to leadership.
- Consulted on multi-office emerging technology legislative policy topics, advising multiple House and Senate offices' staff on AI-related legislative initiatives.



Teaching Assistant for Honors 3025, Applied LLM Systems Louisiana State University, Baton Rouge, LA

Jan. 2024 – May 2024

- After helping start LSU's inaugural Large Language Model utilization class, I was asked to return as a TA to guide the new semester's cohort.
- Led a full-stack development team to develop AI applications, influencing how local businesses adopted LLM technology and improved their operations.
- Advised, supported, and guided students to develop multiple large language model applications for organizations like BASF, OLOL, and The Advocate.
- Worked with class Professors to adapt the class to new advances in LLM technology and communicate opportunities for LLM use in the local community.



Enercon's Nuclear Services Group Intern Enercon Office, Baton Rouge, LA

May 2023 – Aug 2023

- Analyzed and provided recommendations for replacing a Broad Range Gas Monitor compliant with applicable Waterford 3 Nuclear Power Generation Facility regulations to ensure the safety of control room operators by preventing unwanted contaminants from entering the control room.
- Completed a walk down of the Waterford 3 Nuclear Power Facility to ensure the functionality of the proposed design.
- Created a new dashboard to analyze Enercon's project's stage changes pertinent to executive decisions and client dealings.



NASA Systems Engineering and Project Management Intern Marshal Space Flight Center (MSFC) Huntsville Operational Control Center (HOSC), Huntsville, AL

May 2022 – Aug 2022

- Researched and developed an integrated training description of the system architecture for command and control of the International Space Station. Subsequently, system architecture efficiency improvements were proposed and the integrated training description was adopted.
- Completed HOSC Space Operations Academy, which included job training with a Payload Operations Director. Prepared for and sat on console, assisting Astronauts with onboard science experiment execution and implementation, playing a critical role in resolving an off-nominal event onboard the ISS.
- Developed, presented, and approved a design for a new configurable control room with unique capabilities for the Artemis III capsule that will bring humans back to the moon. Subsequently, I proposed and implemented an improvement to the HOSC engineering change board review process for increased efficiency.
- Shadowed the HOSC Operational Director and assisted with implementing multiple project management initiatives.



Louisiana Governor's Fellow Office of the Governor-Louisiana Department of Economic Development, Baton Rouge, LA

May 2021 – Aug 2021

- Researched, developed, and presented a subsequently enacted policy proposal regarding state energy policy to the Governor and his cabinet officials.
- Collaborated with agency leaders on existing projects within LED (Louisiana Department of Economic Development).
- Shadowed state leaders at impactful meetings to observe the Governor's and Secretary's leadership, problem-solving, and negotiation strategies.
- From the program organizer: "Colin demonstrated leadership and commitment to public service, professional discretion and adherence to confidentiality, and strong commitment to good government and effective communication."

SELECTED SPEAKING ENGAGEMENTS AND PRESENTATIONS

"From Hours to Minutes" presentation, Congressional Hackathon (Capitol Auditorium, Washington DC, 09/19/2024)
Covered an AI solutions I built to make Congressional workflows more efficient and effective and explained how staff can use such tools to improve their daily work.

"AI Unveiled: Exploring Its Impact on You" panelist, Applied AI Panel (FIU in Washington DC, 07/20/2024)
Invited to join other government and industry representatives for a panel discussion on how professionals should leverage AI tools in their careers and personal lives.

"The Intelligence Age" presentation, Community Advisory Panel (CAP) Meetings (Louisiana, Aug. 2023 – May 2024)
Series of talks I gave to local CAP groups covering how local organizations should look at leveraging AI positively and the history of disruptive technological innovation.

"The Future of AI in Education" panelist, Conference of Louisiana Colleges and Universities (CLCU) (LSU Alexandria, 04/12/2024)
Selected to represent the LSU student body on a State-wide panel discussing how the Louisiana educational system should adapt to increasingly capable AI systems.

FORMAL EDUCATION

Louisiana State University (LSU), Roger Hadfield Ogden Honors College (Baton Rouge, LA) **Graduated May 2024**
Bachelor of Science, Mechanical Engineering **GPA: 3.5**
Minors: Aerospace Engineering, Economics

NOTABLE INVOLVEMENTS

- Member: Congressional Technology Staffers Assoc., Congressional Modernization Staff Assoc., and Congressional Space Advocates Assoc.
- Recently asked to consult with two academic institutions to guide their AI integration efforts, both guiding faculty to optimally use existing tools to increase efficiency and through re-assessing learning methods and outcomes to maximally prepare students for the Intelligence Age.
- During university, served as a five-time elected LSU Student Government Senator (2020-2024); selected Chairman of the Budget and Appropriations Committee (2022-2024) where I managed, allocated, and oversaw an operational budget of hundreds of thousands of dollars annually and spearheaded multiple impactful initiatives including cutting wasteful spending, built and launched a budgetary dashboard to provide spending transparency and records, and started a new executive department of Technology, Innovation, and Modernization.
- Co-founder of the Alpha Iota Society (AI Society) on LSU's campus. Helped start first class in the nation on building LLM systems at LSU.
- Organized and accomplished the 323-mile "Det. 310 Ruck March" across the US southern coast with other AFROTC Cadets, a National Guardsman, and a Marine. Raised thousands of dollars for two veteran's charities.
- Organized and accomplished the Hurricane Ian Relief drive. While serving as Region IX President, Silver Wings collected and delivered over 3000 pounds of non-perishable food and supplies to a food bank in Fort Myers that ran out of supplies while facing a significant need.

AWARDS AND ACKNOWLEDGEMENTS

- LSU Tiger 12 Recipient (2024). Given to the top 12 graduating seniors who have exceptionally contributed to campus life, the surrounding community, and society through displayed commitment to intellectual achievement, leadership, and service.
- Awarded the Louisiana Volunteer Service Award (2023) from the Lieutenant Governor.
- Twice National Champion of AAEA (Agricultural & Applied Economics Association) Academic Bowl (2023, 2024 as LSU Team Captain).
- LaSPACE Guided Pathways in STEM (GPS) Scholar (2023) through the Louisiana Space Grant Consortium
- Awarded the Bronze Patrick Henry Award for Patriotic Achievement from the Military Order of the World Wars (2019).
- Eagle Scout of the Year (2019), recognized by the Louisiana State Legislature and awarded by the American Legion for exceptional leadership.
- LSU Senior Class Homecoming Court 2023-2024, LSU Sophomore Class Homecoming Court 2020-2021.
- Inducted in ODK, National Leadership Honor Society; recognizing exceptional impact and exemplary character.