

Nina Ayar - Technical Advisor

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Ms. Ayar is a Technical Advisor whose work focuses on the review and evaluation of technologies across electrical and computer engineering, electrification, and medical devices.

During her post-graduate research at UIUC, Ms. Ayar worked on the design and development of miniature, high-torque electric motors for small-scale systems, including a handheld MRI device. She also has experience with zero-emissions aircraft design and hands-on prototyping of medical devices and smart wearable technologies.

Prior Experience

- Graduate Research Assistant, Haran Research Group, University of Illinois, Urbana-Champaign, 2023-2025
- Infrastructure Consultant, Eviden, 2021-2023

News & Publications

- N. Ayar, Y. Shi, C. Little and K. S. Haran, "Design of a Compact Permanent Magnet Vernier Machine for Portable Medical Applications," *2025 IEEE Power and Energy Conference at Illinois (PECI)*, Urbana, IL, USA, 2025
- N. Ayar, M. Ahmed, K. Nocon, R. Patel, T. Green, J. D. Reband, and K. S. Haran, "Propulsion Configuration Design and Analysis for an eVTOL Passenger Air Shuttle," *2021 AIAA/IEEE Electric Aircraft Technologies Symposium (EATS)*, Denver, CO, USA, 2021

EDUCATION

The University of Illinois, Urbana-Champaign, M.S., Electrical Engineering, 2025; Fellow, Promise of Excellence Fellowship (2023); James M. Henderson Fellowship (2024)

The University of Illinois, Urbana-Champaign, B.S., Industrial Engineering; Minor in Computer Science, 2021