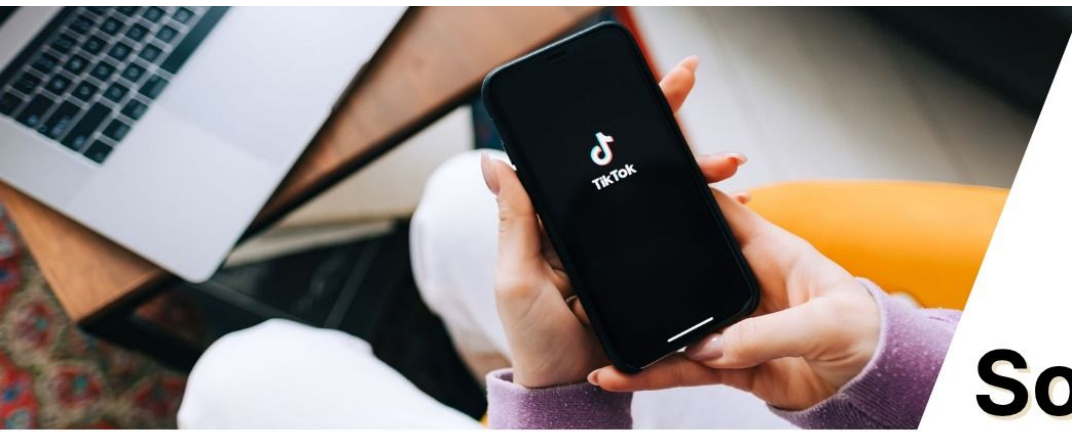




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Showcase Your Skills in the ECE Applied AI Social Media Competition!

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ECE invites you to participate in a Social Media Competition highlighting Vanderbilt's upcoming MS in Electrical and Computer Engineering with a focus on Applied AI.

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- ✓ Gain recognition from faculty and peers!



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Submission Deadline:

December 31, 2025

Questions?

contact us at appliedAI@vanderbilt.edu

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JACK NOBLE

**Assistant Professor of
Electrical & Computer
Engineering**

\$3.1 MILLION NIH GRANT
R01 Award: NIDCD



AUGMENTED REALITY FOR PRECISION SURGERY

Cochlear implant outcomes rely heavily on precise electrode placement, a challenge currently hindered by the need to mentally visualize hidden anatomy. Addressing this, Professor **Jack Noble** has secured a **\$3.1 million NIH grant** to develop an **AI-powered Augmented Reality (AR) vision system** that overlays 3D imaging data directly into the surgical microscope.

By tracking surgical tools in real-time and providing visual alerts when deviating from the optimal plan, this scalable technology enables surgeons with less experience to achieve expert-level precision, significantly broadening patient access. The research is being conducted at the **Vanderbilt Institute for Surgery and Engineering (VISE)** in partnership with Vanderbilt University Medical Center.

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PMB 351824
2301 Vanderbilt Place
Nashville, TN 37235-1824



JUSTUS NDUKAIFE

Chancellor Faculty Fellow & Associate
Professor of Electrical and Computer
Engineering

2025 OPTICA
AMBASSADOR





REDEFINING STABILITY IN THERMAL EMISSION

Justus Ndukaife, associate professor of electrical and computer engineering and Chancellor Faculty Fellow, is leading novel research that has developed all-metal thermal emitters to improve the stability of infrared light sources for applications, like gas sensors, that operate under extreme environmental conditions.

Professor Ndukaife's team has bridged the critical gap between stability and precision by leveraging *Bound States in the Continuum (BIC)* to engineer all-metal thermal emitters. This breakthrough achieved a record-breaking Q-factor of **202**, the highest reported to date for any metal-based emitter, combining the resilience necessary for extreme environments with unprecedented efficiency. Published in *Advanced Optical Materials* (October 2025), these findings pave the way for next-generation advancements in high-precision gas sensing and space-grade communication systems.

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