

Marquette University: Engineering professor honored with young scholar award

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MILWAUKEE — Dr. Nathan Weise, assistant professor of electrical and computer engineering in the Opus College of Engineering at Marquette University, is the recipient of a 2020 Way Klingler Young Scholar Award.

The Way Klingler Young Scholar Award supports promising young scholars in critical stages of their careers. The award is intended to fund \$2,000 in operating costs and to cover a portion of salary to afford the recipient a one-semester release from teaching.

Weise's semester-long research plans involve developing a highly competitive National Science Foundation Career Award proposal, a medium voltage lab facility, basic research findings for all-electric air crafts and writing a book titled *Digital Control of Power Electronics*. He also plans to create a hands-on lab for the book and develop material to disseminate at a professional education seminar.

"I know that Dr. Weise will be vital to the research success of our college as he continues to advance his career," said Dr. Kristina Ropella, Opus Dean of the Opus College of Engineering. "Dr. Weise is a collaborative, collegial and driven colleague."

In 2014, Weise established the Power Electronics Lab at Marquette. Since then, he has built and furnished a world class research program and laboratory facility.

Weise has developed courses in digital control of renewable energy sources, power electronics, power systems and hands-on lab experiences - all of which contain skill sets that are in high demand in the industry today.

Weise has won two highly competitive U.S. Department of Energy Advanced Research Project Agency Energy grants. These grants have focused on ultra-fast high-powered electric vehicle charging and circuit breakers for direct current applications.

In the future, Weise said he hopes to create a world-leading research lab in power electronics, electric machines and control at Marquette.