

Nicholas Kantack

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Education

University of Oklahoma

Bachelor of Science: Engineering Physics
Graduated May 2016
Cumulative GPA: 3.97

University of Virginia

Master of Science: Electrical Engineering
Graduated December 2020
Cumulative GPA: 3.87

Work/Research Experience

Johns Hopkins Applied Physics Laboratory

July 2018 - Present

Software Developer/Electrical Engineer

- Principal investigator for six internal research grants totaling \$315,000 in funding
- Projects include AI research for human-machine teaming, XR sensor fusion and localization, state estimation machine learning, and thin film RF device design

IntriCon Corporation

May 2016 - July 2018

Electronics Manufacturing Engineer

- Design and prototype sub-millimeter scale inductors for implantable medical devices.
- Physical simulation and data analytics software design and support

Univ. of Oklahoma & South Dakota State Univ.

January 2014 - May 2016

Undergraduate Research

- Characterize porous silicon solar cells, fit physical models to performance (OU - Senior research)
- Develop fabrication processes for organic perovskite solar cells (SDSU - Summer research)

Skills

Proficient	Python, Neural Networks, Java, Javascript, C++, C#, Android, 3D printing, digital circuits, Arduino, Raspberry Pi, VR/AR development, Git, PyTorch
Familiar	OpenSCAD, AutoCAD, Unity, Matlab, LaTeX, NodeJS, AngularJS, KiCad, TensorFlow

Volunteering

Tutoring

January 2014 - Present

OU Math center, JHU College Prep program

STEM Development

May 2019 - Present

High school & college mentor, intern supervisor (APL)

Publications and Projects

Visit nickkantack.com for more information.