

Nicholas Kantack

603 Concord Ave, Apt 605 · Cambridge, MA 02138 · 605-690-6811 · nickkantack@gmail.com

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 4 internal research grants totalling \$320,000 in funding
- Projects include AI research for human-machine teaming, thin film RF device design, tactical XR applications, and state estimation algorithms

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 Java, Javascript, Python, C++, C#, Android, 3D printing, digital circuits, Arduino, Raspberry Pi, VR/AR development, Git

Familiar OpenSCAD, AutoCAD, Unity, Matlab, LaTeX, NodeJS, AngularJS, KiCad, TensorFlow

Volunteering

Tutoring

January 2014 - Present

OU Math center, College Nannies & Tutors, 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.