

Nicholas Keator

Senior Mechanical Engineer | Expert in Simulation, Design, and Prototyping

nickkeator.com |
Nickkeator@gmail.com
|www.linkedin.com/in/nickkeator/

Experience

ZT Systems, Secaucus — Senior Mechanical Engineer

Apr 2022 - PRESENT

- Designed and verified server components for HPC ML/AI servers
- Collaborated with manufacturing partners, optimizing part designs for serviceability, manufacturability, and cost
- Troubleshoot and resolve product life cycle issues
- Conducted ABAQUS simulations, including shock, vibration, and static loading, ensuring product integrity.
- Developed Python scripts to automate simulation tasks
- Designed and constructed test fixtures for product validation
- Assisting in managing 3D-printer lab

New Jersey Institute of Technology, Newark Nj. — *Makerspace Employee*

2017 - 2019

- Developed workflow for 3d scanning
- Assisted extracurricular teams fabricate components
- Helped students use equipment including 3d printers and laser cutters

OffCamber Autosport, Rockaway, NJ — *Technician*

2016 - 2017

- Diagnose and repair mechanical and electrical issues

Hunter Merchant, West Palm, Fl — *Technician*

2013 - 2014

- Diagnose and repair mechanical, hydraulic, and electrical issues

Education

New Jersey Institute of Technology, Newark, NJ — MS in Mechanical Engineering

May 2019 - Dec 2020 | 3.85 GPA

- Relevant Coursework: Advanced Thermodynamics, Finite Element Analysis, Computational Fluid Dynamics

New Jersey Institute of Technology, Newark, NJ — BS in Mechanical Engineering

Sep 2016 - May 2019 | 3.40 GPA

- Graduated Cum-Laude for academic excellence

Skills

Software: Creo, Solidworks, Solid Edge, PTC Windchill, ABAQUS, Ansys

Programming: Python, C++

Mechanical Skills: GDT, Mechanical Drawings, FEA, Metrology, Fabrication, 3D Printing, Machining

Awards

NJIT Graduated Cum-Laude:

Recognized for academic excellence and leadership in mechanical engineering.

ZT Systems Patent Recognition:

Acknowledged for contributing to a novel heatsink design, enhancing thermal efficiency in server components.