

# 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 resolved 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*

MONTH 2017 - MONTH 2019

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

## EDUCATION

### 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.