

# NICHOLAS GEORGE

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## PROFESSIONAL EXPERIENCE

### Apple

Cupertino, CA

#### Hardware Design Engineer

Nov 2020 – Present

- Module Lead for the iPhone Face ID currently shipping on millions of iPhone 13 units and not yet released iPhones.
- Define product goals and functionality with Electrical Engineering, Industrial Design, and Product Management teams.
- Work closely with FEA team to verify design concepts, study failure modes, and model FATP process quality.
- Conduct DFM reviews with vendors on injection molded, forged, and machined parts. Define SPC/FAI control specs.
- Validate designs through data review with cross functional teams in Quality, Reliability, and Process to achieve build goals.
- Drive concept and design reviews for reliability fixtures for drop and shock testing on all module configurations.
- Triage build issues and document failure analysis and root cause. Work with CMs to implement corrective actions.
- Design mechanical architecture and develop prototypes for future generation depth modules alongside incubator teams.

### Magic Leap

Plantation, FL

#### Mechanical Engineer

Sep 2018 – Nov 2020

- Oversaw the mechanical design for optical light-field displays across proof of concept and production builds.
- Developed both eyepiece full stack assemblies for Magic Leap 2. Responsibilities included the design of high precision assembly fixtures, optical measurement stations, a sub-arcminute deformation sensor, and electrical components as part of the Vision Optics Assembly team.
- Maintained collaborative relationships with international suppliers for cost, scheduling, and Design for Manufacturing.
- Orchestrated specialized proof of concept builds with high level of autonomy to further inform trade matrices and guide product direction.

#### Associate Mechanical Engineer

Jan 2017 – Sep 2018

- Supported the launch of the Magic Leap One by aiding in design and qualification of the vision optics assembly.
- Developed fixtures, measurement guidelines, and procedure for the Lightwear vision optics assembly and sub-assembly components using coordinate and optical measurement machines, profilometers, shock tables, and thermal chambers to analyze system failure modes.
- Assembled proof of concept builds where I diagnosed root causes of issues and determined corrective actions both at suppliers and production facilities.

### Vecenergy

Fort Lauderdale, FL

#### Associate Mechanical Engineer

Jan 2016 – Dec 2016

- Responsible for ensuring optimal operating conditions for pressure regulating and vapor recovery systems.
- Performed series of procedural testing of offloading fuel from dock to tanks of diesel, ethanol, and jet fuel.

## EDUCATION

### Lambda School

San Francisco, CA

#### Data Science, Machine Learning & A.I.

Mar 2021

- Core Competencies: Python, SQL, Statistics & Modeling, Machine Learning, Linear Algebra, Databases, Big Data, and Visualization. Intensive training in predictive modeling, data engineering, machine learning & A.I.

### Maine Maritime Academy

Castine, ME

#### Bachelor of Science in Mechanical Engineering, Minor in Mathematics

Dec 2015

- An ABET accredited degree focused around the design of mechanical and electrical systems for maritime applications. Completed 60-day summer training cruise on the 500-foot Training Ship State of Maine vessel from Puerto Rico to Quebec.

## CERTIFICATIONS, SKILLS & INTERESTS

### **Bitcoin BOLTFUN Hackathon**

Mar 2022

### **Chaincode Labs Lightning Protocol Development**

Apr 2022

### **The Continuous Improvement Institute**

Jun 2019

### **Technical: NX, PTC Creo, SolidWorks, JMP, Excel/VBA, Python, Heroku/Dash/Flask, MATLAB**

### **Core Competencies: Design for Manufacturing, Data Analysis, GD&T, Tolerance Analysis, Project Management**

### **Bitcoin Hardware Projects: FOSH SeedSigner 3D-printed case, Umbrel full node, Lightning POS device, refurbished miner**