

# Brandon Folger Peterquin

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Looking to apply product design and project management experience to a field that I am truly enthusiastic about where I can challenge myself and express my creativity through innovation.

## FIELD EXPERIENCE

iZotope, Cambridge MA

2018 – 2021

*Lead Mechanical Engineer:* Spire Studio 2nd Generation and not-yet-released product

- Designing injection molded plastic components for NPI
- Coordinating external parts and assembly suppliers for new and existing product generations
- Developing and maintaining departmental PDM for document storage procedures of design materials
- Creating new testing procedures and assembly requirements for new product
- Testing of prototype and production level parts to validate engineering design and manufacturing capability
- Creating PCBA keep-outs and parts placement, injection molded plastic housing designs, BOMs and part drawings and assembly drawings for consumer products
- Distilling customer feedback into product and user requirements
- Troubleshooting and analysis of manufacturing issues to increase assembly throughput and reduce fallout
- Evaluation of competitor's products to understand market trends
- Fabricate engineering and product level evaluation development units

DENSO International America, Southfield MI

2014 – 2018

*Design Engineer III and Project Manager, Instrument Clusters:* Honda/Acura NSX and Honda Pilot

- Designing injection molded plastic instrument clusters housing PCBs and cooling systems to meet internal and customer design specifications, in accordance with international laws and regulations
- Creating initial production drawings and implementing ECN/ECRs in order to meet schedule deadlines
- Constructing test fixture designs and setting up and running prototype and product validation testing to automotive specifications
- Collaborating with other departments, manufacturing plants, suppliers, and OEMs to ensure production feasibility, lead time, and quality by developing and maintaining long (project) and short (sprint) term schedules
- Representing the company in customer meetings as a technical representative to ensure that our clusters met visual and performance expectations
- Leading DFMEA efforts to identify and mitigate design issues throughout development
- Building and maintaining customer and supplier relationships by providing on-site support with domestic and international partners
- Tracking project development and identify potential upcoming concerns in order to mitigate associated risks

## Core Competencies:

Machining | Soldering | Laser Cutter Operation | 3D Printing and Rapid Prototyping | CATIA | SolidWorks | ANSYS Workbench | Autodesk | Matlab | Mathcad | C++ | Java | Microsoft Office Suite | TeamCenter | Jira | Photoshop | CorelDraw | Instron Systems | MicroChip Microcontrollers | Windows | MAC OS | Linux

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## EDUCATION

University of Massachusetts Amherst, Bachelor of Science in Mechanical Engineering,

May 2013

## AFFILIATIONS AND INTERESTS:

Grafton Land Trust Trail Steward and Board Member | Cycling | 3D Design and Printing | Rock Climbing | Drone Racing | Hiking | Poi | Sailing | Parkour | Miniature Computing and Coding | Leather Crafting | Kayaking | Boardgames | Photography