

# ETHAN MARTINEZ

## Consultant Device Engineer

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### PROFESSIONAL SUMMARY

Experienced Consultant Device Engineer with 5 years of expertise in developing and optimizing semiconductor devices. Proficient in leading cross-functional teams to enhance product performance and streamline manufacturing processes. Passionate about leveraging innovative engineering practices to drive technological advancements and deliver high-quality solutions.

### WORK EXPERIENCE

#### Consultant Device Engineer

📅 Apr / 2021-Ongoing

Blue Sky Innovations

📍 Chicago, IL

- Co-led a cross-functional team to select and manage contract manufacturers for device components, ensuring alignment with quality standards.
- Collaborated with Contract Manufacturing Organizations to implement systems that supported regulatory compliance and efficient production timelines.
- Acted as the primary technical liaison between manufacturers and development teams, validating processes for the Afrezza inhaler and cartridge components.
- Assessed device designs for manufacturability, facilitating the commercialization of multi-cavity injection molds.
- Executed intricate design modifications to enhance device functionality, generating comprehensive technical documentation for knowledge transfer.
- Provided critical onsite and remote support for software engineering teams, enhancing the performance of messaging products.
- Developed training materials and conducted workshops to improve team understanding of device engineering principles.

#### Device Engineer

📅 Apr / 2020-Apr / 2021

Summit Peak Industries

📍 Denver, CO

- Collaborated with design teams to innovate solutions for field failure modes, resulting in an awarded patent.
- Established processes for new designs, ensuring seamless integration into existing manufacturing workflows.
- Worked closely with process engineering teams to tackle optimization challenges, boosting production efficiency.
- Integrated advanced technology features into semiconductor products, enhancing overall performance.
- Developed specialized ink formulations and electrode fabrication processes for superior optical and mechanical properties.

### EDUCATION

#### Bachelor of Science in Electrical Engineering

📅 Apr / 2019-Apr / 2020

University of California

📍 Seattle, WA

Focused on semiconductor devices and materials, with hands-on projects in microfabrication techniques.

### SKILLS

Project Planning

Device Engineering

Reliability Testing

Component Selection

### ACHIEVEMENTS

- 🌟 Led the successful validation of manufacturing processes for a new inhaler device, improving production efficiency by 30%.
- 🌟 Developed and implemented design changes that enhanced device reliability, resulting in a 20% reduction in failure rates.