



Eta Wireless
a Murata Company

muRata
INNOVATOR IN ELECTRONICS

Company Overview

Eta Wireless is solving the fundamental problem of power consumption in mobile devices. Our *ETAdvanced* technology is based on the breakthrough research of two M.I.T. professors and first productized for base stations by Eta Devices (acquired by Nokia in 2016). Eta Wireless was acquired by Murata in September 2021 and is productizing *ETAdvanced* technology for mobile devices.

Following the acquisition, we continue to deliver *ETAdvanced* technology to major cellular platforms and mobile device OEMs. As a Murata company we are a multi-disciplinary, multi-national team of engineers with expertise in RF systems, power management, integrated circuits, digital design, software, algorithms, module design, and PA design. This wide range of expertise is rare in a single organization, but our cross-disciplinary collaboration is essential to deliver this disruptive digital supply modulation technology.

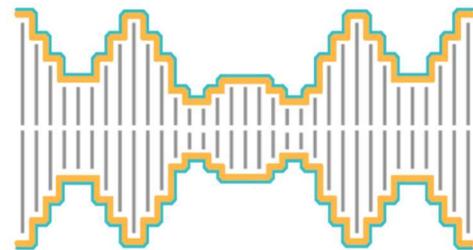


Eta Wireless' headquarters are at 1 Main St in Cambridge Massachusetts which helps us maintain close ties with our M.I.T. heritage. Our staff is a group of talented engineers who thrive on solving difficult challenges with creative solutions. We have a mix of industry and academic experience and more than 90% of our staff hold a Ph.D. or at least one M.S. degree. Our culture is one of continuous learning ongoing innovation.

ETAdvanced Technology

Today's smartphones, tablets, wearables, and IOT devices include high-performance radios that dissipate most consumed energy as heat. The *ETAdvanced* technology uses an innovative power management IC to improve RF efficiency and reduce power consumption, as well as a digital signal processing technique to restore linearity. *ETAdvanced* leverages the strengths of RF, analog, and digital components to enable high-performance 5G with high efficiency.

Our solution requires innovation in several areas. We invent, design, and manufacture power management ICs and modules in volume. We develop and prototype digital signal processing algorithms (e.g. digital pre-distortion). We deliver custom RTL packages implementing these algorithms for integration with a customer's transceiver or modem, and support the customer throughout the design-in. We architect and customize software and firmware for internal and customer use to enable a robust platform solution. We measure comprehensive RF system performance to prove performance of the technology over the most challenging scenarios and with industry-leading RF PAMiD and PADs. As Eta Wireless we are solving a major challenge of 5G with by reimagining the RF front end.





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Digital Design Engineer

The Digital Design Engineer designs, documents, and verifies the RTL interface to integrate Eta's DSP core into the customer's transceiver ASIC. This engineer is responsible for some level of customer-facing discussion on integration topics (e.g. agreeing on interfaces, resolving bugs in verification) and also preparing and supporting deliverables. The successful candidate will have a strong industry background in RTL design (Verilog, System Verilog) and have experience delivering soft IP packages to an internal or external customer.

Objective

- Design and verification of the RTL interface to integrate Eta's custom digital DSP core into customer's transceiver or modem
- Create interface specifications with customer and provide design documentation
- Support customer through all phases including specification, design, documentation, verification, integration, and validation
- Write scripts to aid in design and verification, especially using Verilog, Matlab, python, etc.

Experience

- BSEE or MSEE and industry experience custom Verilog design for digital ASIC products
- Experience implementing and debugging register files and common communication busses e.g. AXI, APB, wishbone
- Solid understanding of verification methodologies e.g. UVM
- Highly desirable: experience designing for mobile devices

Compensation and Benefits

Eta Wireless offers an industry-leading compensation and benefits with 401k matching, four weeks of paid vacation, flexible work arrangements where possible, medical/dental/vision/legal/life/disability insurance, wellness benefits, and more.

Contact Information

Qualified candidates are encouraged to get in touch at careers@etawireless.com for more information.