# Aneth Bernasek

Embedded Developer

## Profile

Dedicated Embedded Developer with 1 year of experience in designing, implementing, and optimizing firmware for embedded systems. Proficient in C/C++ and skilled in hardware-software integration and debugging. Adept at collaborating in cross-functional teams to deliver high-quality, reliable, and efficient embedded solutions. Quick learner with a strong foundation in electronics, microcontrollers, and real-time operating systems. Seeking opportunities to contribute expertise and grow professionally in the embedded systems field.

## Employment History

### Embedded Software Developer at Real Time Logic, ND

Apr 2023 - Present

- Developed a high-performance embedded web server, increasing system efficiency by 40%: At Real Time Logic, I successfully designed and implemented an embedded web server for resource-constrained devices. This server significantly improved system performance by reducing memory usage and CPU load, ultimately leading to a 40% increase in overall efficiency.
- Optimized firmware updates, reducing update time by 35%: I led a team that streamlined the firmware update process for our embedded systems, implementing delta updates and reducing the size of update packages. As a result, we decreased the time required for firmware updates by 35%, enhancing the user experience and minimizing downtime.
- Integrated IoT protocols, increasing device compatibility by 60%: I spearheaded a project to incorporate popular IoT protocols such as MQTT and CoAP into our embedded software stack. This integration expanded the range of devices and systems our software could communicate with, increasing device compatibility by 60% and opening up new market opportunities for the company.

### Junior Embedded Software Developer at Appareo Systems, ND

Jul 2022 - Mar 2023

- Developed and implemented an optimized embedded software solution for Appareo's flight data recorder, resulting in a 20% reduction in processing time and enabling real-time data analysis during flights.
- Collaborated with a team of engineers to design and develop a new firmware update system for Appareo's avionics products, improving update efficiency by 30% and reducing the risk of system failure during updates by 15%.
- Successfully integrated third-party sensor systems into Appareo's existing product line, streamlining development processes and contributing to a 25% increase in overall product functionality and versatility.

## Education

### Details


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### Links

linkedin.com/in/anethbernasek

### Skills

- Microcontroller programming
- RTOS integration
- FPGA development
- I2C communication
- SPI protocol
- ARM architecture
- CAN bus

### Languages

- English
- Bengali

### Hobbies

Building and programming robots

Experimenting with IoT devices

Developing custom home automation systems