



Creative engineering
that enables the
extraordinary.

At EM Photonics, creative engineering is more than finding solutions to problems. Rather, it is about exploring the unthinkable and enabling extraordinary approaches to high performance computing applications.

WHAT WE DO

Approaching a decade in business, EM Photonics is known for its expertise in accelerating computationally intense algorithms and building unique embedded computing solutions.

In the first years, our focus was on the development of accelerated desktop-based solvers for the scientific computing field. Later, we began to apply our technology to image processing applications, as well as build solutions for everything from deployable embedded devices to desktop workstations to high performance computers. We have utilized many computational platforms including FPGAs, GPUs, DSPs, and multi-core microprocessors. Image processing, numerical analysis, scientific computing are just some of our primary areas of expertise.

In addition to our hardware-accelerated solutions, we offer custom-design services and on-site training for those clients with proprietary algorithms or unique problems. Our solutions are built on a variety of cutting edge technologies and can be targeted to embedded system, desktop workstation, or datacenter form factors according to client specifications.

WHY EM PHOTONICS

As a small business, we react quickly to our customer needs. Our clients receive personalized services, quick delivery time, and high value. Our experience allows us to work with each client to fully understand their applications and efficiently map the underlying computations into the most appropriate hardware device and platform.

CORE CAPABILITIES

- » Algorithm optimization
- » Embedded systems design and implementation
- » FPGA- and GPU-based solutions
- » Image processing
- » Scientific computing
- » Numerical analysis
- » Control systems design and development
- » GPU programming training

OUR CLIENTS

- » Government and military
- » Systems integrators
- » Prime contractors
- » Hardware and software developers
- » Universities and technology research centers

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