

# Gauda Inc.

## Fact Sheet

**The Company:** Gauda is the first company to offer the technology to accelerate computation for OPC (optical proximity correction) using GPUs (graphical processing units). The company has developed a new breed of algorithms that accelerate the most computation-intensive Process Proximity Correction applications by utilizing both the GPUs and CPUs commonly found in all computers, without sacrificing accuracy. Gauda is initially focused on OPC (optical proximity correction) and OPV (optimal proximity verification) solutions that can significantly reduce time to market and improve chip yield in 45nm and 32nm technology nodes.

Gauda has applied for 14 patents.

**Technology:** Gauda's unique advantage lies in intelligently partitioning algorithms among the available computational resources found in all computers and tailoring algorithms to benefit from the computational strength of the available hardware. Gauda has recorded 200X acceleration of OPC execution when to solutions running solely on traditional CPUs and is the first company to realize an attractive speed advantage for OPC using GPUs.

From the beginning, the company decided not to use any specialized hardware. Today, the software they've developed runs on standard desktop computers equipped with graphics cards usually sold by companies such as NVIDIA and ATI.

With Gauda technology and approximately 10 all-commodity desktop computers, a large 45nm full-chip layout can be decorated overnight. Similarly, one single desktop computer is sufficient to complete the verification overnight. Gauda's solution is linearly scalable to several hundred desktops. Therefore, it is possible to complete OPC or verification tasks within a few hours.

**Executive & R&D Teams:**

- Ahmet Karakas, Founder & CEO
- Ilhami Torunoglu, Founder & CTO
- 7-member R&D team

**History:**

- Raised seed funding in and started operation in April 2006
- First beta customer installed 2007
- Applied for 14 patents; more planned

**Location:** 530 Lakeside Drive, Suite 180, Sunnyvale, California, USA

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