



NEURAL SEMICONDUCTOR

About Neural Semiconductor

Neural Semiconductor, a concern of DBL Group, is dedicated to providing a full package of SoC Design Services. It has its expertise in Semi-Conductor Chip Designing & Fabrication, VLSI Designing, Artificial Intelligence (AI), IoT, hi-tech Manufacturing, Testing & Assembly which finds its application in industries like pharmaceuticals, automotive, automation, health-care, energy, security, and advanced agriculture driven by semiconductor and software. It has established a VLSI Design Center based in Dhaka, Bangladesh and a marketing and customer interface office is maintained in USA, India, Japan and China. It provides Analog/Digital design service with a highly professional design and sales team. Neural Semiconductor's management team has over 26 years of experience. Technical leads have over 20 years of experience in respective areas of expertise. Furthermore, our Core Design team has an experience of more than 10 successful tape out. It intends to make Bangladesh as a VLSI Design HUB collaborating with highly talented and skilled engineers.

The Beginning of the Journey

DBL Group's latest initiative Neural Semiconductor's VLSI Design Center began its journey on 2nd April 2017. The VLSI Design Center was inaugurated by the Hon'ble Vice Chancellor of BUET, Prof. Dr. Saiful Islam. DBL Group's Board of Directors: M.A. Jabbar, Managing Director, M.A. Rahim, Vice Chairman, M.A. Quader, Deputy Managing Director and other high officials, Neural Semiconductor's COO, Md. Shakhawat Hossain and other officials were present during the inauguration.

DBL Group is a diversified business entity, which has vertically integrated textile and apparel manufacturing facilities, with concerns in ICT & Telecommunications, dredging, ceramic tiles, pharmaceuticals and more. The business started in 1991 and is now a conglomerate of 23 concerns with a dedicated, skilled workforce of more than 30,000 employees.

As one of its newest concerns, DBL Group has high expectations of Neural Semiconductor as its first foray into technology design, and plan on utilizing a growing talent pool of engineers and IT professionals to take their vision forward. As such, a good number of aspiring engineers have joined Neural Semiconductor as part of the design team. These professionals have been trained



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Md. Abdul Jabbar
Managing Director
Neural Semiconductor Limited

overseas and the key personnel leading the team are professionals with more than twenty years of experience working at the Intel Corporation and other renowned tech companies in Silicon Valley, USA.

The VLSI Design Center is based in Bangladesh, with offices in Gulshan 1. A marketing and customer interface office is maintained in the USA, while the production of microchips designed by Neural Semiconductor, which requires advanced techniques and infrastructure that Bangladesh simply can't provide at the moment, is carried out by the TSMC in Taiwan. TSMC (Taiwan Semiconductor Manufacturing Company) is one of the largest, dedicated and independent semiconductor foundry in the world.

Strengths

- Customer Flexibility
- Reduced Design Cycle
- 24x7 Smooth Communication
- Highly Professional Project Management
- Global Customer Interface
- Strong collaboration with BUET
- Supported by DBL group's strong financial strength (2015-16 annual turnover \$365 million)

List of Services

The increasing complexity and cost of bringing a chip to market presents ever increasing challenges for our customers. That is why Neural Semiconductor has concentrated on building a team that has a wealth of experience in creating bespoke business and technical IC design solutions to tackle the most challenging projects, as well as creating a team with strong engineering capabilities to get the job done at lowest possible cost. It provides a wide range of design services. Design services are tailored on demand. Our design team has vast EDA tool expertise.

Its design team has more than 10 tape out experience in following major industrial IC design tools-

- Place & Route tools- ICC2, AP, Innovus
- Synthesis tools- Genus, DC
- STA signoff - PrimeTime, Tempus
- PV signoff- Calibre, PVS, ICV
- Extraction tools- QRC, starRC
- Formal verification - LEC, Formality
- Power- Voltus, PrimeRail


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Achievements

- It has done synthesis, physical design, formal verification, signoff verification of an open RISC 1200 MINSOC processor
- It has done a VHDL-AMS

The Team

- Synthesis Team
- Physical Design Team
- SoC Verification & Signoff Team
- DFT Team
- Analog Design Team

Design Services

- FinFET RTL to GDS-II Design Services
- Design Signoff Services
- AMS Design Services
- DFT Design Services
- IP Design Services

Partners

- Bangladesh University of Engineering and Technology (BUET)
- Cadence Design Systems



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