Nirmal Kumar Sancheti

Telephone: +91-9845070140
Email: nirmal@sankalan.in

Training Experience

Started Sankalan Training and Consultancy, a proprietary training firm with a view to improve productivity through concepts. Have been involved in various training programs in Corporates and also taught undergraduate courses as visiting faculty in Educational institutes.

- The key interest areas of the training are **Deep Learning, Machine Learning and Design Oriented Effective Programming.**
- Machine Learning at Adobe, NIIT University, AllGoVision, AllGo Embedded
- Deep Learning at AllGo Embedded, AllGoVision
- Linear/Nonlinear Optimization at NIIT University, AllGo Embedded
- Linear Algebra at Philips, Motorola, Insilica
- Algorithms at Conexant, NIIT University, BITS Pilani, JCE, CDAC, IISc, Ittiam, AllGo Embedded, AllGoVision
- DSP at Samsung, Motorola, BMSCE, NIIT University
- Effective Programming at IIT Kanpur, JSS Noida, IIT Jammu

Industry Experience

Jul 2020-Feb 2023	Director and COO at AllGoVision Systems Pvt Ltd. Responsible for Engineering and Operations.
Aug 2019-Feb 2020	CEO at AllGo Embedded Systems Pvt Ltd.
Jul 2007-Jul 2019	Director and VP- Engineering at AllGo Embedded Systems Pvt Ltd.
May2005-Jun 2007	Operations Manager – DSP, Motorola India Pvt. Ltd., Bangalore. Responsible for People and Engineering management.
Jul 2003-Apr 2005	Director-System Engineering, Insilica Semiconductors India Pvt Ltd – Bangalore. Responsible for People and Product management. Domain focus was Algorithms for Wireless LAN PHY.

Sep2000-Jul 2003	Department Manager – SSG/ISD SW & PID, Philips Semiconductor – Bangalore in areas of Speech Recognition, Speech Coding, USB and device drivers.
Feb93 – Sep2000	Last served as Program Manager (Engineering Manager) in Motorola India Electronics Limited in the areas of Digital Signal Processing. During 1998-1999 (one year) also worked as Technical Staff for audio. In that role I developed the bit allocation algorithm and psychoacoustic model.

Education

1989-1993	Indian Institute of Science, Bangalore 560 012. Ph. D. from the Department of Computer Science and Automation. Obtained Ph. D. degree in 1995. Thesis Title: *Efficient algorithms for Linearly Constrained Convex Programming and some Proximity problems*
1987 – 1989	Indian Institute of Science, Bangalore 560 012. M. E. in System Science and Automation from the Department of Computer Science and Automation. Project Title: *Algorithms in Computer Vision: Sequential and Parallel Implementations.* Advanced Courses: Computer Communication, Artificial Intelligence, Digital Signal Processing, Computer Vision, Decision Estimation and Control, Computer Simulation Modeling and Analysis.
1983 – 1987	Jadavpur University, Calcutta – 700 032. B. E. in Electrical Engineering.

Highlights of Research Work

- Fast algorithms for linearly constrained convex programs in low dimensions
- Optimal algorithms for finding the distance between convex polyhedra.
- The intensity of collision between intersecting polyhedra shown to be NP-complete
- Collision avoidance robot motion planning algorithm (Implemented)
- Numerical integration under algebraic constraints (Implemented)