# Curriculum Vitae Dr. Antony Louis Piriyakumar DOUGLAS

Where my skill sets can be used in your organization Experience in International projects (Automotive engineering)
Technology roadmap for strategic growth
Patent analysis for new product development
Competitor patents analysis for infringement, Widening scope of patents, feature-wise analysis



### Position specific skills

Interdisciplinary technology roadmap for multiple divisions Strategic decision on new products Patent process setup for the organization

#### Innovation Management

Strategic focus on budget allocation for multiple technologies
Held positions: Technical expert, Project Manager, Patent Manager in Siemens for 12+ years
Technology evangelisation

### Top three talents

- 1. Proven industrial knowledge Patents 7 (granted) 12 (in progress) 25 (submitted)
- 2. Consistent academic records Ph.D. (Magna cum Laude), Masters. (Record). Graduation (Gold medallist)
- 3. Decades of technical expertise Programming in Basic (1983) to Python (2016) on DSP platforms to Supercomputers (Cray T3E) by applying Signal/Image processing and data science to Smart diagnostics systems

## Work experience

- 1. Technical specialization in mobile robotics, embedded programming, computer vision
- 2. Understanding regional and global market requirements
- 3. Experience with USA, European and Asian customers on collaborative research
- 4. Worked with Continental on "Lane departure warning" project (Project Manager 10 years before)
- 5. Working with multiple Business units securing the strategic growth
- Setting up of various patent related processes such clearance for new product development against infringement
- 7. Knowledge and training in international business compliance

#### Dates Occupation Name of employer

July 2004 - present (12+) Research and technology centre (RTC) and Siemens Healthcare Technical Expert / Member Technical Staff and Patent Manager(5 year period) Siemens Healthcare Pvt. Ltd., Siemens AG, 105, Electronics city, Bengaluru 560100, India

Jan 2004 – July 2004 (A) and Oct 1989 – May 1996 (B) in Academics and research Professor (A) and Lecturer (B) PES University, Bengaluru, India (A) and Pondicherry University, India (B)

#### Education

Dates Ph.D June 1996 - September 2003 (With DAAD scholarship)

Image understanding (Magna cum Laude from IPVS, Uni-Stuttgart, Germany)

Dates Masters Jan 1993 - June 1994 (With GATE scholarship)

Multiprocessor scheduling (completed with the record time of 1.5 years in the history of IIT-M (Indian Institute of technology - Madras)

Dates Graduation September 1996 - August 1998

Computer science (completed with Gold medal - university topper)

Skill sets Understand Speak Write Languages German B2 Intermediate User B2 B2

Management skills

Project management	Technical - ref projects section
	Project management - team management++
Financial management	Bid management (technical part) – E passport national bid Sales - Through wall imaging system LoA exam – completed successfully
Innovation management	Patent manager – Invention evaluation, training Inventor – Patents granted 7, 12 in progress

Technical skills competences

Areas of Specialisation: Real-time vision based analytics, novel Sensor applications, wireless cameras platforms, Thermal imaging, Signal processing, Multiple hardware platform based performance optimization

Customer Industry	Key Project works/Innovation/Prototypes
Automotive safety	Pedestrian detection, Lane departure warning system
Transportation Infrastructure	Vehicle Detection, Traffic queue length detection Static Vehicle Detection and Smoke detection in tunnels
Transportation logistics	Baggage claim alert system in airports
Infrastructure safety	Multi cameras based human tracking, Video stitching, VIP Building security assessment
Metals and mining	Billet cutting
Water technology	Bioluminescence based poison detection, Arsenic detection kit
Food and beverages	Curd quality measurement, Bottle cleaning systems
Drive technology	Energy saving monitor
Electrical and electronics	Embedded vision applications
Public sector	Security and surveillance applications
Medical Imaging	Urine strip analysis, Length estimation in X-ray images, Image analysis of Brain, Coronary arteries, lung fissure, Liver, Kidney, Spleen in CT and right ventricle in MR images
Healthcare	Personalized 3D printed stents, ST segment analysis in ECG
Rail automation	Stop signal detection, Fog penetration system

Projects with technical contribution and management

Computer skills

and

competences

Advanced proficiency levels:

Programming: C, C++, C with MPI/real-time tasks, Prolog, Matlab, R programming, Python

Operating systems: Unix, Linux, Microsoft windows

Hardware platforms: PCs, Embedded hardware (smart camera) to Supercomputers (Cray T3E)

Membership IEEE Senior member and ACM member

Countries visited Passport/Visa/

USA (10 years B1 visa -completed), Germany Schengen (validity over), England, Sweden, Austria Non-project visits: France, Italy, Vatican, Switzerland, Netherlands, Belgium, Egypt, Singapore

Additional information

References available upon request

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Nationality

Marital status Married (living with wife and two daughters).