



Michel  
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Sr. Polymathic

Engineer

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Talent for Hire  
(<https://michelc.tk/>)



## Work History

2018

### GC-Bank

President Director (CEO)

📅 (2018 - present) | 📍 Ecublens, Switzerland

currently developing cryptocurrencies and ledger technologies; architect blockRings for IPH\*System; develop participatory token for U-Nion TV media; launched CERES platform as a transformative economy experiment; issued the first cryptomorphic currency LVC for a Festival in Miami; setup GC-bank portfolio and associated coin forge for minted currencies; developed non-proof of work blockchains; invented smart litigation and proof of witness for solution to double s; developed non-consensus based ledger as byzantine resistant system; developed system robust to Sybil attack for identity management.

2012

### Intel Inc. / Lemoptix S.A.

Lead Electrical Engineer R&D Architect / Head of Electrical Engineering

📅 (2012 - 2018) | 📍 Lausanne, Switzerland

developed light weight smart glasses; deploy production validation and characterization flow on manufacture line; build and Reamp up volume for [Vaunt smart glasses][Vaunt]; design MEMs electronic control and drive algorithm. Developed picoprojector, wearable, Head up Displays; architect mems based picoprojector platform, lead prototyping team; supervise Design and Manufacture of Headup displays, companion projectors and Monochrome Smart Glasses; lead the Engineeing Team responsible for design of company chipset.

## Intersil Inc.

Principal Engineer

📅 (2010 - 2011) | 📍 Milpitas, USA

developed laser drivers, reference design, video processor; build reference designs for pico-projector, prepared CES demos ( worked with major customers in the field Syndiant, Micron, LGE, MVIS, Bosh, bTendo ); defined ARM based video processor architecture for MEMs scanner display systems, geometric correction, mixed signal servoing of laser beams, temperature and power management, white balance controlled loops; published datasheet and supporting documentations for products release; designed drivers for native / direct green lasers (Nishia, Sora, OSRAM).

2006

## Spatial Photonics Inc.

Sr. Electrical Engineering Manager

📅 (2006 - 2008) | 📍 Sunnyvale, USA

developed pico-projectors and MEMs displays; developed FPGA demonstration boards for MEMs technology display; assembled bulk DC convertor for high efficiency LED illumination; developed algorithm for pixel rendering in a video system using Pulse Width Modulation (PWM); coded RTL for a dithered gamma correction module; directed LED projector System Architecture team.

2003

## Reflectivity Corp.

Principal Electrical Engineer

📅 (2003 - 2006) | 📍 Mountain View, USA

developed Image Quality Algorithm for HDTV; developed algorithm for pixel rendering in a video system using Pulse Width Modulation (PWM); implemented flash-based and FSM-based PWM sequencers on Spartan3 board; determined color filter optimization design rules using CIE-1976 space.

## Orient Direct Inc.

ASIC Engineer

📅 (2003 - 2003) | 📍 Santa Cruz, USA

developed embedded still camera; programmed de-mosaicing and image processing

unit design; designed DDR arbiter between graphic CPU, memory and imager; developed video auto-white balance algorithm; oversaw prototype manufacturing for a wrist watch camera.

2001

### APT Technologies Inc.

Mixed Signal Design Director

📅 (2001 - 2002) | 📍 SantaCruz, USA

developed Serial ATA / High Speed IOs and switches; directed the Analog design Group of APT technologies; architected Out-of-Band Signaling for HDD / IDE interface; managed analog filters amplifiers, voltage references, signal detection and Gibabit SERDES module designs; prototyped Serial-ATA host bus adapter and routers enabling RAID and SCSI low cost solutions; deployed ASIC methodology and provided tools and EDA support to the company; supported Layout design, chip integration, verilog coding, modelsim and SPICE simulations, synplify, leonardo synthesis, place and route, design space exploration and optimization script using AI/CI technology; co-edited Serial ATA early specification and pushed standard.

1999

### Infineon Technologies Corp.

System On Chip Integration Manager

📅 (1999 - 2001) | 📍 SantaCruz, USA

developed Read/Write Channel, HDD Controller; lead SoC integration team to achieve a "one-chip" disk drive; Defined test plan and validation strategy for HDD Controller; managed IC design team to implement SATA PHY and Transport layers; coded, simulated, and evaluated MAC module for HDD controller.

1995

### Texas Instruments Corp.

Digital Design Team Manager - MGTS

📅 (1995 - 1999) | 📍 Dallas, USA / Nice, France

Mentored group design activity by establishing methodology and procedures that ensured a high-level quality product using state-of-the-art tools; designed HDD (700MHz) high performance architectures (Viterbi decoder) and fast arithmetic units; took full ownership of DSP+ARM mega-modules electrical design (tremendous success: 220M units); globally promoted an electrical "know-how" throughout his team and other organizations around the world: France, Italy, Japan, Houston, Chicago; defined the design strategy for new wireless product generations by providing specifications,

end-user guidelines, tools, flows and trainings; participated in the cost reduction definition process and advanced libraries via technology steering committee.

1991

### Bull S.A.

Integrated Circuits Development Engineer

📅 (1990 - 1994) | 📍 Les Clayes-sous-Bois, France

Pioneered using Delay Locked Loop (DLL) for clock recovery and full digital PLLs; designed and architected various mixed-signal complex circuits: a 0.5u CMOS prototype for 1.2Gb/s serial link compatible IEEE 1355, a 0.8u packet-switching router 8Gbps, super scalar RISC micro processor, and a delta-sigma audioband analog to digital converter (TMS320AD50); designed key modules: asynchronous FIFOs, registers banks, Digital PLLs, and a 32b VLIW execution unit.



## Education History

1991

### Pierre & Marie Curie University

Ph.D. , Micro Electronics & Engineering

📅 (1991 - 1994) | 📍 Paris, France

Phase and Delay Locked Loop

1989

### Electronics Superior Institute of Paris

Master , Computer Engineering

📅 (1989 - 1991) | 📍 Paris, France



## Professional Skills

## Team Leadership / People Skill

System Architect

100%

Deep Learning & Big Data

100%

Blockchain / Ledger Technologies

60%

Software Dev.

100%

Hardware Dev.

40%

SoC, ASIC, FPGA

80%

Perl, Python, Verilog, ...

100%

100%

## 🌐 Language Skills

✓ French

Native

✓ English

Professional

✓ German

Limited

## 📍 Location



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