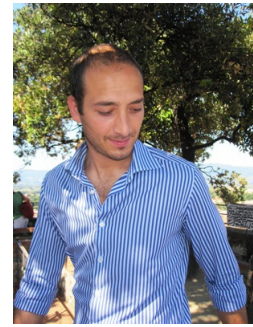


Michele Bavaro, MSc



PERSONAL INFORMATION:

Name: Michele Bavaro
Address: Via San Martino 77, 56125, Pisa, Italy
Telephone: +39 347 0094377
eMail: michele.bavaro@gmail.com
mbavaro@onetalent-gnss.com
Birthday: April, 24th 1977

EDUCATION AND TRAINING:

Computer science engineering at University of Pisa - Sep 1997 to Jul 2003
MSc on Robotics and Automation with 108/110 marks and thesis "*Study of control methods for variable stiffness robotic arms*".

WORK EXPERIENCE:

Independent consultant ([One Talent GNSS](#)) – Feb 2011 to present

I started as self-employed consultant in GNSS technologies (receivers and transmitters), HW design and integration, SW development for Intel and ARM Cortex.

Senior Navigation Engineer at [NSL](#) (UK) - Dec 2007 to Jan 2011

I joined the company searching for new challenges in my career. At first I brought my experience in GNSS receivers and developed an automotive GPS/Galileo/SBAS software receiver in the framework of the [SISTER](#) project. I then moved into PCB design and integration of GNSS hardware as an enabler of SDR GNSS applications. Since [PRIMO](#) was developed, I could provide NSL with an end-to-end L1 multi-constellation receiver capability. From there two major exploitation routes have been followed: a high end multi-frequency SDR GNSS receiver for x86 multi-core platforms (and its relevant front-end) for use

in high value markets and a miniaturised L1 software receiver for ARM platforms to use in low-power and size applications. In my third year at NSL, the company commercialised a set of new products that I have designed in order to establish itself as worldwide provider of SDR GNSS receivers and expertise.

Navigation engineer at [Intecs S.p.A](#) (IT) - Dec 2006 to Nov 2007

I worked in the space division developing software for GNSS signal processing and navigation. I have been mainly involved in three activities: *SoftrecG3*, a post-processing SDR receiver and analysis tool for all Galileo navigation signals now marketed as [gLab](#); *Nadia*, a multi-function personal navigation and LBS device for visually impaired presented at ENC 2009; *Nanoform* and *MIOsat*, two projects respectively on GNSS receivers for formation flight and standalone navigation in low Earth orbit scenarios.

Chief Engineer at [DISAPS](#) (NL) - Feb 2006 to Nov 2006

I was appointed and relocated to the Netherlands as chief engineer at DISAPS VOF, a start-up born as Dutch spin-off of Intecs S.p.A. and physically located at the European Space Incubator in ESTEC, Noordwijk. I have been managing the Company to raise funds for the PossybliCom project, a portable and accessible personal GPS/EGNOS navigator for visually impaired.

In the meantime I supported my former colleagues in Italy on the development of a combined Galileo-GPS L1 real-time software receiver.

Navigation engineer at [Intecs S.p.A](#) (IT) - Jun 2004 to Jan 2006

Substantially appointed as software engineer, I have been the technical responsible for the ESA-funded [Soft-Rec](#) project. A multi-channel GPS/EGNOS software receiver was developed in collaboration with the University of Pisa. The receiver was one of the first GPS/EGNOS capable of real-time continuous operation on Intel/Linux platform. During this period I also developed an USB driver for RTLlinux and managed the relationships with our partners.

Software analyst at [ISAC S.r.l](#) (IT) - Jan 2004 to May 2004

I worked in industrial automation company, as a programmer. My duties were MS Windows XP Embedded operating system design and programming numerical controlled machines.

Researcher at University of Pisa (IT) - Aug 2003 to Dec 2003

I worked at [Interdepartmental Research Centre "E. Piaggio"](#) under a contract entitled "*Study, project and development of actuators for intrinsically safe haptic interfaces*".

PUBLICATIONS:

- A. Bicchi, G. Tonietti, M. Bavaro, and M. Piccigallo. "*Variable Stiffness Actuators for Fast and Safe Motion Control*" In B. Siciliano, O. Khatib, and F.C.A. Groen, editors, Proceedings of ISRR 2003, Springer Tracts in Advanced Robotics (STAR). Springer Verlag, 2003
- M. Bavaro, D. Citterico, C. Dionisio PossybliCom: "*A Navigation System for Aiding Impaired People*", Posters of Navitec 2006, December 2006
- C. Dionisio, Luca Cucchi, R. Marracci, M. Bavaro, "*GNSS SW receivers based on COTS*", Proceedings of Navitec 2006, December 2006
- Y. Adane, M. Bavaro, J. Gow, E. Goodyer, M. Dumville, "*Miniaturised Dual-Channel High-End Receivers for GNSS Software Defined Applications*", Proceedings of Navitec 2008, December 2008
- M. Bavaro, Y. Adane, E. Goodyer, J. Gow, M. Dumville, "*Low Cost Multi Constellation Front End for GNSS Software Defined Receivers*", Posters of ENC 2009, May 2009
- B. Wales, L. Tarazona, M. Bavaro, "*NSL Snapshot Positioning for low-power Miniaturised Spaceborne GNSS Receivers*", Proceedings of NAVITEC 2010, Dec 2010
- L. Tarazona, M. Bavaro, "*PRECISIO RF front-end*", Proceedings of NAVITEC 2010, Dec 2010

PERSONAL SKILLS AND COMPETENCES:

Languages:

Italian: MOTHER TONGUE
English: FLUENT

Technical skills and competences

Hardware:

- High-end multi-core x86 based computer platform
- Embedded computer architectures (x86 and ARM)
- GPS/Galileo RF front end development and integration
- Mixed signal PCB design

Software:

- Operating systems:
Windows, Linux, Windows XP Embedded, Symbian.
- Office automation:
Microsoft Office, Microsoft Project.
- Technical computing:
Matlab, Simulink, Octave, Gnuplot.
- Programming language tools:
GNU GCC, x86 and ARM Assembly, Microsoft Visual C++ and C#,
Microchip C18.
- Hardware design:
Cadsoft Eagle, Xilinx ISE.

HOBBIES:

I love sport in general, and socialising. It's probably because of it that I have been playing volleyball at a very decent level since the age of 14, and as an amateur now I enjoy the competition and fairplay in it. In my spare time, I always love sharing moments with a good bunch of fellow mates.