

CURRICULUM VITAE

Date of birth: **11/07/1985**
 Place of birth: ALTAMURA (BARI)
 CF: DBRSVR85L11A225G
 Nationality/ citizenship: Italy
 Gender: Male
 Age: 31

E-mail address: **s.debernardis@poliba.it**
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ID: **105823047** | updated on **24/07/2016**

Work experiences

03/2016
TODAY

Bellino srl, MODUGNO (BA) (engineering and precision mechanics)
Researcher at Bellino srl (R&D and patents)

Main activities and responsibilities: flow optimization through control valve for oil & gas applications with Computational Fluid Dynamics

Acquired skills and achieved objectives: ESI-ACE software, OpenFOAM, Computational Fluid Dynamics

Employed as: other fixed-length contract

01/2015
02/2016

Politecnico di Bari, BARI (BA) (computer science, data processing and acquisition)
Fellow researcher (R&D and patents)

Main activities and responsibilities: A System to Exploit Thermographic Data Using Projected Augmented Reality

Acquired skills and achieved objectives: Matlab, CATIA

Employed as: other fixed-length contract

01/2015
12/2015

Politecnico di Bari, BARI (BA) (education, training, research and development)
Research fellow at DMMMM- Politecnico di Bari, in Bari (R&D and patents)

Main activities and responsibilities: Development of Augmented Reality systems for diagnostics of historical and artistic artifacts

Acquired skills and achieved objectives: Designing of a projection system data with pico projector video camera system by software developed in Matlab.

Research on visualization technologies in augmented reality, three-dimensional reconstruction of objects using depth sensors, study of automated systems for detecting the status of efforts to be applied in the field on ergonomic work stations

Employed as: other fixed-length contract

11/2011
03/2012

Elfim s.r.l., GRAVINA IN PUGLIA (BA) (engineering and precision mechanics)
Ingegnere progettista e di produzione (Engineering and design)

Main activities and responsibilities: Progettazione di macchine per uso farmaceutico, saldature leghe di alluminio, strutture per l'arredamento, produzione telai per autoveicoli

Acquired skills and achieved objectives: Modellazione CAD con software Creo, classificazione acciai, studio metallurgico leghe di alluminio, dispositivi in pressione, lavorazione per deformazione plastica di lamiere in acciaio

Employed as: intern/trainee internship

Internship during studies

Utilizzo di software numerosi software CAD anche su diversi sistemi operativi
 450 hours at: Politecnico di Bari (at university)

VR3Lab Politecnico di Bari (at university)

other information

Currently employed: Yes
 Registration at the employment office: Yes
 Voluntary service: Yes
 Work experience made during studies: Yes

Academic studies

2015

Doctor of Philosophy (Ph.D.) obtained on 30/03/2015

Politecnico di BARI

pHd cycle: 27

Name of the course of study: DOTTORATO DI RICERCA IN INGEGNERIA MECCANICA E GESTIONALE

Final degree mark: 110/110

Minimum mark: 110

Age at graduation: 29 | First academic year of enrolment: 2011 | Official time limit for the degree course (years): 3

Dissertation/thesis title: Systems and methods for Industrial Augmented Reality

2011

2nd level degree - Master obtained on 04/10/2011

Politecnico di BARI

Facolta' di INGEGNERIA

36/S - Class of second level degree in Mechanical Engineering

Name of the course of study: INGEGNERIA MECCANICA

Final degree mark: 110/110 cum laude

Age at graduation: 26 | First academic year of enrolment: 2008 | Official time limit for the degree course (years): 2

Dissertation/thesis title: Study and comparison of Product Data Exchange formats for advanced engineering systems

Dissertation/thesis subject: SIMULAZIONE E PROTOTIPAZIONE VIRTUALE | Effort 5 months



Certified Cv

2008

1st level degree - Degree/Bachelor obtained on 11/11/2008

Politecnico di BARI

Facolta' di INGEGNERIA

10 - Industrial Class of first level degree in Engineering

Name of the course of study: CORSO DI LAUREA IN INGEGNERIA MECCANICA

Final degree mark: 109/110

Minimum mark: 66

Age at graduation: 23 | First academic year of enrolment: 2004 | Official time limit for the degree course (years): 3

Dissertation/thesis title: Studies about M- CAD modelling interface based on trackball

Dissertation/thesis subject: Disegno Assistito al Calcolatore | Effort 4 months

2004

SCIENTIFIC CERTIFICATE at 'FEDERICO II', ALTAMURA (BA)

School-leaving examination mark: 100/100

Kind of secondary school diploma: Italian secondary school diploma

Kind of secondary school attended: Public school

Other postgraduate studies

2015 -

OTHER TRAINING COURSE Scuola volo Bari **Corso teorico pilotaggio droni autorizzato ENAC**

Corso teorico pilotaggio droni autorizzato ENAC

Expectations and features of the desired job

Intention to continue studies: Yes - doctoral studies

Economic sector: 1. Research and Development | 2. manufacture of machines, mechanical devices and transport devices | 3. building industry; project, construction, installation and maintenance of buildings and systems.

Career field: 1. R&D and patents | 2. Engineering and design | 3. Management

Desired job: engineer

Preferred district to work in: 1. BARI | 2. MATERA

Availability for business travels: yes, even frequently

Foreign language skills

Europass classification - Europass level



English

French

Overall	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
Good	B2 Independent	B2 Independent	B2 Independent	B2 Independent	C1 Proficient
Good	B2 Independent	B2 Independent	B2 Independent	B2 Independent	B2 Independent

Europass classification is based on 6 increasing levels: A1, A2, B1, B2, C1, C2

Diplomas and certificates

English

TOEFL certificate: 75, TOEFL, 05 Apr 2016, B2

Notes

Trinity College liv. 7
TOEFL liv: 75

Information technology skills

Generic skills

Operating systems: Excellent
Word processing: Excellent
Data base administrators: Fair
Internet skills: Excellent
Multimedia: Good

Programming languages : Good
Electronic spreadsheet : Excellent
CAD skills: Excellent
Web-site creation: Fair

Specific skills

Programming languages known: Matlab, C++, SageMath, Python
Software applications: Catia v5, Matlab, Autocad, PtCreo, SolidEdge, Salomé Meca, OpenFoam, NX8, Microsoft Office, LibreOffice, Gimp, Linux Ubuntu, Windows

Certifications

ECDL (European Computer Driving Licence) certificate: Yes

Studies and experiences abroad

2013

Other experience acknowledged by the course of study (Visiting scholar)

Place: **Ames (United States of America)** | Language: English | Duration: 8 (months)

Achievements

Qualifications

29/04/2013

Iscrizione Albo Ingegneri

I'm regular part of Engineer Association Board in Italy, in the district of Bari, as Industrial Engineer, section A
www.ordingbari.it/la-professione/albo.html

Publications

Journal articles

2016

Tim Garret, Saverio Debernardis, Rafael Radkowski, James Oliver , Poisson Mesh Reconstruction for Accurate Object Tracking with Low-fidelity Point Clouds

Review: Journal of Computing and Information Science in Engineering
Publisher: ASME
accepted for publication

2014 **Michele Fiorentino, Antonio E Uva, Michele Gattullo, Saverio Debernardis, Giusep** , Augmented reality on large screen for interactive maintenance instructions
Review: Computers in Industry
Publisher: Elsevier
We present an empirical study that evaluates the effectiveness of technical maintenance assisted with interactive augmented reality instructions. Our approach consists in an augmented visualization on a large screen and a combination of multiple fixed and mobile cameras. We used commercially available solutions. In our test, 14 participants completed a set of 4 maintenance tasks based on manual inspections of a motorbike engine. Tool selection, removal of bolts, and part dis\ assembly, are suppo
[dx.doi.org/10.1016/j.compind.2013.11.004](https://doi.org/10.1016/j.compind.2013.11.004)

2014 **Saverio Debernardis, Michele Fiorentino, Michele Gattullo, Giuseppe Monno, A Uva** , Text readability in head-worn displays: color and style optimization in video vs. optical see-through devices
Publisher: IEEE
Efficient text visualization in head-worn augmented reality (AR) displays is critical because it is sensitive to display technology, text style and color, ambient illumination and so on. The main problem for the developer is to know the optimal text style for the specific display and for applications where color coding must be strictly followed because it is regulated by laws or internal practices. In this work, we experimented the effects on readability of two head-worn devices (optical and vid
[dx.doi.org/10.1109/TVCG.2013.86](https://doi.org/10.1109/TVCG.2013.86)

2013 **Michele Fiorentino, Saverio Debernardis, Antonio E Uva, Giuseppe Monno** , Augmented reality text style readability with see-through head-mounted displays in industrial context
Review: Presence: Teleoperators and Virtual Environments
Publisher: The MIT Press
The application of augmented reality in industrial environments requires an effective visualization of text on a see-through head-mounted display (HMD). The main contribution of this work is an empirical study of text styles as viewed through a monocular optical see-through display on three real workshop backgrounds, examining four colors and four different text styles. We ran 2,520 test trials with 14 participants using a mixed design and evaluated completion time and error rates. We found that
[dx.doi.org/10.1162/PRES_a_00146](https://doi.org/10.1162/PRES_a_00146)

2012 **DEBERNARDIS S., M. Fiorentino, A. Uva, G. Monno** , E adesso come lo esporto?
Review: IL PROGETTISTA INDUSTRIALE

Records of conventions

2014 **T. Garrett, S. Debernardis, R. Radkowski, Carl K Chang, M. Fiorentino, J. Oliver** , Rigid Object Tracking Algorithms for Low-Cost AR Device
Collection: idetec 2014
Organization: ASME
www.asmeconferences.org/idetec2014/

Book chapter

2016 **Saverio Debernardis, Michele Fiorentino, Antonio E Uva, Giuseppe Monno** , A System to Exploit Thermographic Data Using Projected Augmented Reality
Book title: International Conference on Augmented Reality, Virtual Reality and Computer Grap
Publisher: Springer International Publishing
We present a prototype system composed practically of an IR camera and a video projector with the purpose to create a device that projects the thermal map directly on the observed surface. The novelty of this work lies on the building of a portable tool, the development of software and the proposing of a calibration procedure to be used in industrial and construction sites from thermal inspectors.
[dx.doi.org/10.1007/978-3-319-40621-3_37](https://doi.org/10.1007/978-3-319-40621-3_37)

Teaching activities

2013 **Politecnico di Bari** , Politecnico di Bari
assistenza a corsi universitari

Personal presentation

I am determined, meticulous and precise. I like challenges and ability to solve complex problems on several engineering fields, without specific preferences with talent and dedication. I like the work of coordination and direction of team work, and I like assume responsibility respect to my job function.

I inform myself about the scientific culture in general, understanding of economic and social problems of society. The fields of the most interest are, as well as engineering, natural medicines, subjects of Physics, informatic open source solutions.

I have cooperated and worked in mechanical companies in the past. Although during the university studies I have not participated in Erasmus projects, I have traveled extensively in almost all EU countries, trying to learn and compare the culture of the countries visited by one of my country. I have high communication skills, especially abroad. I like traveling very much.
In my free time I like to devote myself to work in the countryside



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