

CARMINE GRASSO

VISUAL ARTIST | COMPUTER ENGINEER | RESEARCHER

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Profile

Italian visual artist and computer engineer whose work brings painting, geoscience, interactive electronics, sound and moving image into dialogue. His artistic language, Dualismo, places figurative and abstract forms in conversation. Alongside a research career at the National Institute of Geophysics and Volcanology (INGV), he develops tactile and audiovisual works for public audiences.

Artistic practice

Grasso works across painting, installation and digital media. In his interactive paintings, conductive colour forms the touch-sensitive surface: painted areas function as capacitive electrodes and connect the image to audiovisual content. The tactile interaction has been tested in the studio and in exhibitions. His practice also explores accessible interpretation through touch, voice, video and captions.

- **Dillo alla Luna / Tell It to the Moon** — interactive installation with a spoken guide, a responsive backlit lithophane, tactile 3D textures, NFC access and text-to-speech.
- **Enigma Rosso** — paintings and installation combining LED light, holographic elements and ambient music.
- **Interactive painting** — conductive painted forms connect with audiovisual media, extending the canvas into an interface.

Selected exhibitions and recognition

- 2026 — Second Prize at the International Biennale of Contemporary Art, “Arte Metafisica”, Genazzano (RM), for Aurum latens (25 October).
- First Prize, Installation section, Biennale del Rosso, Bacoli (NA).
- 2026 — Alone, video exhibition at the Celeste Bartos Theater, The Museum of Modern Art (MoMA), New York; two Special Mentions at the Biennale Arte Contemporanea Dentro il Blu.
- 2025 — Special Mention, La Luna negli occhi dell’uomo di ogni tempo, Casina Vanvitelliana, Bacoli; solo exhibition Le sfere dell’anima, Zungoli. 2024 — Special Mention, Premio Spoleto, Spoleto Art Factory.

Selected art catalogues

Included in CAM (Catalogo d’Arte Moderna), no. 62 (Giorgio Mondadori, Cairo Editore); Artisti 26 (Fondazione Effetto Arte); and Atlante dell’Arte Contemporanea, no. 74 (Giunti Editore).

Professional experience 2021 to present

Technologist, Level III | Istituto Nazionale di Geofisica e Vulcanologia (INGV), Irpinia | **November 2022–present**

Permanent appointment. Research, software architecture and development in a geoscience research environment.

Technologist, Level III | INGV, Grottaminarda | **October 2019–August 2021**

Database development and technical work supporting the Institute's research activities.

Adjunct Lecturer, Elements of Computer Science | University of Sannio, Department of Law, Economics, Management and Quantitative Methods | **February 2022–present**

Teaching undergraduate-level elements of computer science.

Adjunct Lecturer, Computer Architecture | University of Salerno, Department of Computer Science | **September 2023–September 2024**

Teaching computer architecture.

IT Teacher | I.I.S.S. Grottaminarda | **September 2021–November 2022**

Teaching computer science at upper-secondary level.

Research Fellow | University of Sannio, Department of Engineering | **March 2018–March 2019**

Research on a platform for enterprise data protection (SSD ING-INF/05): IT security, IDS/IPS probe design and development-team coordination.

External Trainer, “Nuovi Linguaggi” | Istituto Superiore Aeclanum, Mirabella Eclano | **March–June 2019**

PON/FSE training in software development technologies, including C#, Visual C# and SQL Server.

External Trainer, work-based learning programme | I.I. Ruggero II, Ariano Irpino | **March–September 2019**

Technical development and dissemination for the “Mini-sistema SAPG”; training in web applications and Internet of Things using PHP, MySQL, Arduino and Raspberry Pi.

Teacher, Electronics and Computer Science | IIS De Gruttola, Ariano Irpino | **October 2018–June 2019**

Teaching electronics, electrotechnics, systems and computer science.

Teacher, Computer Science | IIS De Gruttola, Ariano Irpino | **December 2017–June 2018**

Teaching computer science.

Digital skills trainer | I.I. Ruggero II and ITIS G. Dorso | **2016–2017**

Delivered National Digital School Plan training in project management, team building, IT security, computer networks and digital teaching; taught computer science, electronics and electrotechnics.

Professional experience 2009 to 2021

Research Fellow, CAPRI project | University of Sannio, Department of Engineering | **April 2016–April 2017**

Research and software development for CAPRI, an intelligent aircraft landing-gear project (PON03PE_00 135_1), including modules for handling data from aircraft weight and centre-of-gravity measurement systems.

Research and software developer | CeRICT, Regional Information and Communication Technology Centre | **February 2015–February 2016**

Worked on Optofer, a project on innovative optoelectronic technologies for railway infrastructure monitoring and diagnostics (PON03PE_00 155_1). Designed and developed software in Java and C++/Qt, and worked with Arduino and Raspberry Pi.

Software Developer | Techno Solutions, Ariano Irpino | **February–November 2015**

Developed C++ software for ARM and Linux platforms.

Training fellow, SMART HEALTH 2.0 | CeRICT and Ministry of Education, University and Research | **June 2014–April 2015**

Training and on-the-job placement within the SMART HEALTH 2.0 project (PON04a2_C).

IT Designer and Software Developer | Netgroup S.r.l. | **December 2013–June 2014**

Developed the ACS Portal for Alenia Aermacchi (JSP, JavaScript, jQuery, DB2 and WebSphere) and Solution Builder for Telecom (C#, ASP.NET, SQL Server and JavaScript).

Software Developer | Expert System, Naples | **July–November 2013**

Developed REST and SOAP web services in Java and JSON; Java components for SPARQL queries over Linked Open Data; and JSP, HTML and JavaScript interfaces using Sencha Ext JS.

Research Fellow | University of Sannio | **October 2010–October 2013**

Studied methods for business/IT alignment, technology planning and business-process reengineering. Developed Java and MySQL software and tools for business-process and software-system alignment.

Research and software consultant | CeRICT and University of Sannio | **2009–2010**

Contributed to research on business-process/software alignment, software analysis tools and heterogeneous data-acquisition platforms; developed Java, C# and database components.

Teaching and academic support | University of Sannio; Nicola Sala State Conservatory of Music; BIOGEM | **2010–2012**

Supported courses in business information systems and Java programming; taught introductory computing and office software; tutored an international master's programme in biolaw and supported web communications and administration.

Earlier software and technical roles | Public and private organisations in Campania | **1998–2009**

Early work included IT support, software development and technical assistance. Software projects included Java, C#, SQL Server, Eclipse plug-ins, data acquisition and web applications.

Education and qualifications

Ph.D. in Information Engineering | University of Sannio, Department of Engineering | **2010-2013**

Final assessment: very good. Thesis: Business-process and software-system alignment: state of the art and development of a Java/Eclipse framework using GEF, EMF and process mining.

M.Sc. in Computer Engineering | University of Sannio | **2009**

Final grade: 110/110. Thesis on methods and tools for analysing alignment between business processes and information systems.

Master's programme in Security and Intelligence Systems | CeRICT, with the Italian Ministry of Education, University and Research | **2012-2013**

1,480-hour programme covering security technologies and the planning, management, evaluation and organisation of research projects.

Master's degree, Special Educational Needs (BES) | Accademia di Belle Arti "Michelangelo", Agrigento | **2019**

Teaching methodologies and strategies for inclusive and curricular education.

24 University Credits in Education (24 CFU) | Accademia di Belle Arti "Michelangelo", Agrigento | **2020**

Coursework in teaching methods and assessment, general and intercultural pedagogy, inclusion, cultural anthropology and developmental psychology.

Professional Engineer qualification | Italy | **2009-2010**

Passed the state examination in 2009; registered with the Order of Engineers of the Province of Avellino from February 2010 (registration no. 2427).

Additional training and certifications

- Google Cloud Platform Developer Enablement Program — Cloud Developer, 2019.
- EIPASS European IT Certification — office software and IT security, 2018.
- Six Sigma Yellow Belt Professional — agile management and project management, 2016.
- Scrum Fundamentals Certified (SFC) — 2016.
- 9th International School on Software Engineering, University of Salerno — 2012; PASED Canadian Summer School on Practical Analyses of Software Engineering Data, Montreal — 2011; 7th International School on Software Engineering, Salerno — 2010.
- Doctoral coursework in statistics, empirical software engineering and business information systems, University of Sannio — 2010-2012.

Skills and languages

Research and engineering: software architecture; data management; business/IT alignment; IT security; database and web application design; RESTful services; geospatial and GNSS-related research support.

Technologies: Java and Java EE; C, C++, C#, ASP.NET; Python; PHP; JavaScript, HTML, XML and CSS; MySQL and SQL Server; SPARQL/RDF; UML; MATLAB; Spring, Eclipse, Visual Studio, Android Studio, Apache and Tomcat; Arduino, Raspberry Pi and Linux/ARM.

Art and interaction: painting and installation; conductive painting and capacitive touch; audiovisual systems; tactile interpretation; accessible captioning; offline speech and text-to-speech prototyping.

Languages: Italian (native); English (good); French (basic).

Selected scientific publications

- Famiglietti, N., et al. (2021). “A Test on the Potential of a Low-Cost UAV RTK/PPK Solution for Precision Positioning.” *Sensors*, 21(11), 3882.
- Cecere, G., et al. (2020). “The INGV-RING GNSS Real-Time Services for Geophysical Applications.” *EGU General Assembly 2020*, EGU2020-17342.
- Aversano, L., Grasso, C., Grasso, P., and Tortorella, M. (2017). “Investigating Differences and Commonalities of Software Metric Tools.” *ICSOF 2017*.
- Aversano, L., Grasso, C., and Tortorella, M. (2016). “Managing the Alignment between Business Processes and Software Systems.” *Information and Software Technology*.
- Iele, A., et al. (2016). “A Feasibility Analysis for the Development of Novel Aircraft Weight and Balance Monitoring Systems Based on Fiber Bragg Grating Sensors Technology.” *8th European Workshop on Structural Health Monitoring*, Bilbao, Spain.
- Aversano, L., Grasso, C., and Tortorella, M. (2013). “Goal-Driven Approach for Business/IT Alignment Evaluation.” *CENTERIS 2013*.
- Aversano, L., Grasso, C., and Tortorella, M. (2012). “A Literature Review of Business/IT Alignment Strategies.” *Procedia Technology*, 5, 462–474.
- Aversano, L., Grasso, C., and Tortorella, M. (2012). “A Characterization Framework for Evaluating Business/IT Alignment Strategies.” *14th International Conference on Enterprise Information Systems (ICEIS)*, Wroclaw, Poland. Best Paper Award, Enterprise Architecture area.
- Aversano, L., Grasso, C., and Tortorella, M. (2011). “ALBIS—Aligning Business Processes and Information Systems: A Case Study.” *Communications in Computer and Information Science*, 220, 286–296.
- Aversano, L., Grasso, C., and Tortorella, M. (2011). “Evolving Enterprise Information Systems in Small and Medium Enterprises: An Opportunistic Approach and a Case Study.” *IEEE Conference on Commerce and Enterprise Computing*.
- Aversano, L., Grasso, C., and Tortorella, M. (2010). “Software System Evolution Driven by Business Alignment Measure.” *14th European Conference on Software Maintenance and Reengineering*.
- Aversano, L., Grasso, C., and Tortorella, M. (2010). “Measuring the Alignment between Business Processes and Software Systems: A Case Study.” *ACM Symposium on Applied Computing*.
- Aversano, L., Grasso, C., and Tortorella, M. (2010). “Validation of a Measurement Framework of Business Process and Software System Alignment.” *12th International Conference on Enterprise Information Systems*.
- Aversano, L., Grasso, C., and Tortorella, M. (2009). “A Framework for Measuring the Alignment between Business Processes and Software Systems.” *Advances in Software Engineering, Communications in Computer and Information Science*, Springer.

Conference contributions and awards

- CENTERIS 2012, Algarve, Portugal — speaker and author of “A Literature Review of Business/IT Alignment Strategies.”
- ICEIS 2012, Wroclaw, Poland — speaker and co-author of “A Characterization Framework for Evaluating Business/IT Alignment Strategies”; Best Paper Award in Enterprise Architecture.
- CENTERIS 2011, Algarve, Portugal — author of “ALBIS—Aligning Business Processes and Information Systems: A Case Study.”