

Vincenzo Schettino

✉ v.schettino@hotmail.it

in vschettino

EDUCATION

- **Master of Science in Automation and Robotics Engineering** Napoli, Italy
University of Naples Federico II; Summa cum Laude with commission's honourable mentions Sep 2014 - Jul 2016
- **Bachelor of Science in Automation and Robotics Engineering** Napoli, Italy
University of Naples Federico II; GPA: 4.0 Sep 2011 - Jul 2014

WORK EXPERIENCE

- **Tech Lead Surgical Robotics** Freiburg/Boston
Stryker Corporation Jun 2021 - present
 - **Leading a team of software engineers** in the design, development, and testing of navigated robotic surgical systems
 - Identify promising robotics solutions, reduce key technical risks, and **drive the development from prototype to commercialization.**
 - Collaborating with marketing, clinical specialists and surgeons to **understand market needs** and architect technical solutions ensuring customer satisfaction.
- **Sr. Software Engineer - Medical Robotics** Augsburg/Boston
KUKA Deuschalnd GmbH Sep 2017 - May 2021
 - **Lead software architecture, implementation, integration, and testing of complex, software solutions** for robot control in the field of medical technology.
 - Translated **highly technical results** into easily understood recommendations that influenced senior stakeholders and **drove new KUKA technologies into the market.**
 - **Established best-practices for medical device software(IEC62304)** development within the organization.
 - **Promoted the development of new technologies** for different KUKA Medical Robotics customers based on collision-free path planning and trajectory optimization.
- **Research Engineer, Robotics** Augsburg
KUKA Roboter GmbH Sep 2016 - Jun 2016
 - Extended a **real-time capable control software architecture for distributed robot control.**
 - Took leadership to design, develop and test new **robot control algorithm based on whole-body control and trajectory optimization approaches** with KUKA cobots.
 - **Evangelized** the obtained results in international conferences and internal global company events with C-Levels audience.

SKILLS SUMMARY

- **Languages** C++, Java, Matlab/Simulink, CMake, Python, C#, UML
- **Frameworks** Agile, Atlassian, Git, Azure, Jenkins, TFS, Perforce, CI/CD, SonarQube, Enterprise Architect
- **OS** Linux, Windows, VxWorks
- **Interests** Robotics, Safety Critical Systems, Software Engineering, Trajectory Optimization, Whole-Body Control, Redundancy Optimization
- **Certification** *Modern C++1.1 Design (QA Systems), Artificial Intelligence: Business Strategies and Applications (UC)*

PATENTS

- Schettino V., Lutscher E., 2020, "Improvement of robot accuracy with a compensation of the non-perfect robot rails straightness in radiation therapy applications", WO2022084078A1.
- Schettino V., 2020, "Pseudo Cartesian Velocity Motion Commands for Robot Applications", DE102019219930B3.
- Schettino V., 2020, "An online-capable computational procedure to detect and predict task/constraint conflicts and task/task conflicts", DE102021201024B3.
- Schettino V., 2019, "Novel Dinamically Consistent Manipulability Index and its Robotic Applications", WO2021122173A1.
- Schettino V., 2019, "A computational method to detect and avoid tasks singularities", DE102019219930B3.
- Scheurer C., Schettino V., Allmendinger F., Fiore D. M., 2018, "An intuitive teaching approach for robot applications with physical contact and specific process forces", DE102018206947A1.

PUBLICATIONS

- Schettino V., Fiore M.D., Pecorella C., Ficuciello F., Allmendinger F., Lachner J., Stramigioli S. and Siciliano B., "Geometrical Interpretation and Detection of Multiple Task Conflicts using a Coordinate Invariant Index", 2020, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Las Vegas, USA.
- Lachner J., Schettino V., Allmendinger F., Fiore M.D., Ficuciello F., Siciliano B. and Stramigioli S., "The influence of coordinates in robotic manipulability analysis", 2019, Mechanism and Machine Theory, Elsevier.