

Davide Buccieri
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Age: 27
Single
Italian, permit C

KEY SKILLS

Excellent interpersonal skills – critical thinker – great adaptability

WORK EXPERIENCE

- 2003-2007 **Research assistant**
École Polytechnique Fédérale de Lausanne, Laboratoire d'Automatique
- Planning and accomplishment of a research project as part of a *Swiss National Science Foundation* program.
Development of a control methodology, leading to a significant work-rate improvement of cranes.
 - Management and planning of industrial projects.
EOTHEME S.A. Feasibility study of a double-rotor wind turbine and development of an advanced control law.
LEM S.A. Modelling, analysis and modifications of a high-accuracy current sensor, leading to an easily implemented solutions.
 - Supervision of academic projects and teaching activities.
 - Development and realisation of a high-performance crane prototype.
- 2005-2006 **Research assistant (New York)**
Polytechnic University, Brooklyn
- Scientific collaboration with Prof. Jiang (see Publications)

EDUCATION

- 2003-2007 **Ph. D. in Automatic Control**
École Polytechnique Fédérale de Lausanne, Laboratoire d'automatique
- 1998-2003 **Master in Mechanical Engineering**
École Polytechnique Fédérale de Lausanne
- 1995-1998 **Baccalaureate in science**
Gymnase cantonal de La Chaux-de-Fonds

LANGUAGES

French	Mother tongue
Italian	Mother tongue
English	Good knowledge of writing and speaking (6 months stay in New York City)

COMPUTER SKILLS

Matlab, Simulink, Mathematica, I-DEAS, LabVIEW, C, Pascal

INTERESTS

Old Vespa restoration, gastronomy, swimming and playing tennis

PUBLICATIONS

- *D. Bucciari, D. Perritaz, Ph. Müllhaupt, Z.P Jiang, and D. Bonvin. Velocity Scheduling Controller for a Nonholonomic Mobile Robot: Theoretical and Experimental Results. IEEE Transactions on robotics and automation, (soumis)*
- *D. Bucciari, Ph. Müllhaupt, Z.P Jiang, and D. Bonvin. Velocity Scheduling Controller for a Nonholonomic Mobile Robot. Chinese Control Conference, 2006, Harbin, China*
- *D. Bucciari, D. Perritaz, Ph. Müllhaupt, Z.P Jiang, and D. Bonvin. Experimental Results for a Nonholonomic Mobile Robot Controller Enforcing Linear Equivalence Asymptotically. ICIEA 2006, Singapore*
- *Ph. Müllhaupt, D. Bucciari, and D. Bonvin. A numerical sufficiency test for the asymptotic stability of linear time-varying systems. Automatica(2007), vol. 43, pages 631-638*
- *S. Gros, D. Bucciari, Ph. Müllhaupt, and D. Bonvin. A two-time-scale control scheme for fast systems. In Int. Workshop on Assessment and Future Directions of Nonlinear Model Predictive Control, Freudenstadt Lauterbad, Germany, August 2005.*
- *D. Bucciari, Ph. Müllhaupt, and D. Bonvin. Spidercrane: Model and properties of a fast weight handling equipment. In Proceedings of the 16th IFAC World Congress, pages Th – A03 – TO/2, Prague, Czech Republic, June 2005.*
- *D. Bucciari, J. Sanchez, S. Dormindo, Ph. Müllhaupt, and D. Bonvin. Interactive 3d simulation of flat systems: The spidercrane as a case study. In Proceedings of the 45th IEEE Conference on Decision and Control, Sevilla, Spain, December 2005.*

REFERENCES

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