

ERASMUS STUDENT PLACEMENT
Transcript of work

HOST ORGANISATION

Name and address of the Host organisation: Technical Aspects of Multimodal Systems (TAMS), University of Hamburg
Tutor: Prof. Houxiang Zhang
Phone Number: +49 (0) 40 42883-2565
E mail address: hzhang@informatik.uni-hamburg.de
Position: Scientific associate

TRAINEE

Name of the trainee: Filippo Sanfilippo
Placement dates: from 01/10/2010 to 28/03/2011
Number of hours worked: 40 per week, 800 in total
<p>Activities carried out during the placement:</p> <ul style="list-style-type: none"> - exploring the modularity concept in robotics - developing of a simple planar manipulator model - developing of an algorithm capable to find the optimal configuration of a modular reconfigurable gripper - exploring the possibility to imitate humans posture synergies in order to simplify the manipulator control
Language skills: intermediate standard of spoken and written English
Language improvements during the placement and comments: he has improved his language skills and he was able to present his work to the team during our traditional oberseminar. He also wrote his master thesis and submitted a paper about his work to IROS conference.
Technical skills: expert Java, C, C++, assembly, HTML, python, UML programmer
Technical skills improvements during the placement and comments: he learned to use and program some simulators as OpenRAVE and GraspIt! in order to test the algorithm that he developed.
Organisational skills acquired and ability to work as part of a team: He is a very hard worker, eager to please, willing to learn and fits nicely in the team. In general we pleased

to have him with us, he has become an integral part of the team.

Computer skills: he wrote his thesis and his paper using LaTeX.

Other skills and competences acquired:

Overall evaluation of the trainee:

Filippo Sanfilippo works on modular grasping at TAMS for around six months. He investigated different grasping configurations and to find the minimal, optimized solution and evaluate the grasping quality if possible. He also investigated different planners for mapping synergies. His work is perfect and strong. I am very satisfied with his work and his working style.

He is one of the best students I have supervised. He is very intelligent and works always hard.

As a conclusion, Filippo Sanfilippo should have the highest grade for his master work.

Suggest GRADE: Sehr Gut(1.0)

Additional comments, if any:

Date 28/03/11
Student's signature

Filippo Sanfilippo

Tutor's Signature
STAMP

Dr. Houxiang Zhang