

Internship - Company Feedback

Company: Micropsi-Industries GmbH

Department: Robotics Software and Infrastructure

Name of the student: Michalina Dengusiak

Dear Sir or Madam,

We would like to thank you for allowing one of our students to experience your company first hand. We would kindly ask you to complete the brief feedback sheet below so that we can learn more about our student's behaviour and progress during his/her internship.

Many thanks for your cooperation and help.

Kind regards,

Berlin Cosmopolitan School

Please grade the following characteristics (1 - very good; 5 - inadequate)

Characteristic	Grade	Characteristic	Grade
Punctuality	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Adaptability	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
Attendance	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Interest	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
Politeness	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Relationship to colleagues	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
Engagement	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Ability to accept and act on feedback	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
Communication (Written/ Verbal)	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Overall grade:	1 2 3 4 5 <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>

Please provide us with an insight into what the student has learnt during their time with you, how they have progressed and any additional positive or negative feedback you would like to share with us:

Michalina worked on a machine learning project that classifies an industrial material's orientation on a workbench. This is a crucial functionality for our operation so that our industrial robots decide on an appropriate gripping pose based on the object's orientation to pick the object safely.

Michalina had only two weeks of time to finalize such a complex task. She started with a tutorial on how to train a machine learning model for an image classification task. She quickly progressed on it so that she could move fast to the actual task. She learnt how to develop such a machine learning process, using Deep Neural Networks, and was able to successfully apply it on our object orientation classification. At the end of the first week, she completed a successful machine learning model for her classification task, along with the software that runs the model on general image classification problems.

During the second week, her task was to deploy the classification system to run it in real-time over a video camera stream. She integrated our industrial camera and successfully retrieved image frames to work on. Then, she improved her machine learning software to run predictions on the object's orientation received from live video streams. The actual value of her work is that the system she developed is reusable on similar tasks. She demonstrated her results on the workbench (on the real system) to the team. In general, we are happy with her contribution to our project.

Michalina is a hardworking student with a high potential. She quickly grabbed and owned the task as if she was a professional software engineer. We are very impressed by her results and the system she developed in such a short time. Additionally, she has great communication skills and a very positive attitude with a very proactive work ethic. We wish her great success in her studies and her future career.