

Mattighofen, 29.06.2023

## FEEDBACK AMM INTERNSHIP

Mr. Cagil Oral, born on 25.02.1997 has been employed in our company since 01.03.2023.

As part of his training, Mr. Oral works as a dual intern in the component development team for lighting components. His main tasks include:

- » Python Development of a time-critical lighting control software for proof of concept
- » Integration and implementation of communication via CAN-Bus and Ethernet/UDP
- » Embedded Prototyping on Linux Based System (Raspberry Pi)
- » Mathematical calculation of light distribution in software
- » Matlab/Simulink Development for Embedded Controller

The number of hours per week is 15.4 hours during the lecture period and 38.5 hours outside of the lecture period.

Right from the start, Mr. Oral showed greatest interest in the agreed area of responsibility. When it comes to more complex issues, he is always highly motivated to fully understand the problem. He completes the tasks assigned to him independently and to our complete satisfaction. He can also use his previous knowledge in the field of Python Programming and Model-based Development in Matlab/Simulink in a broad variety of ways in this project. Mr. Oral integrated into our team very quickly and is a very beloved colleague.



Bernd Feldmaier  
Head of E/E Components



Christian Schickhuber  
Lighting Components

Evaluation R & D Project (PRO3P)  
Master's Degree Programme Automotive Mechatronics and Management



STUDENT :

Name: Cagil Oral

Student number: s2210787021

TITLE OF PROJECT:

Design and Development for the Control Software of the Matrix LED Pixel Headlight

COMPANY FEEDBACK

Company: KTM Forschungs & Entwicklungs GmbH

Company supervisor: Christian Schickhuber

Functional Range: ☐ Quality Management ☐ Research ☒ Programming  
☐ Production ☒ Development ☐ Sales ☐ .....

Evaluation: ☒ outstanding ☐ good ☐ satisfying ☐ not satisfying

Please forward your written feedback as enclosure, maybe employment reference  
(concerning project management, quality of work, commitment, special performance)

☒ The students' time requirement for the project work was  $\geq 225$  hours

20.02.2024

Date



Signature

EVALUATION BY THE FH SUPERVISOR

Project quality, systematic approach,  
Documentation (content, structure, form of the report),  
(70% of the overall rating)

.....sehr gut.....

Presentation (30% of the overall rating)

.....gut.....

Final Grade Project

.....sehr gut.....

Date

Name and Signature of the FH Supervisor

HARALD KIRCHSTEIGER

Mattighofen, 22.02.2024

## FEEDBACK AMM INTERNSHIP PRO3

Mr. Cagil Oral, born at 25.02.1997 has been employed in our company since 01.03.2023.

As part of his PRO3 Phase, Mr. Oral works as an intern in the component development team for lighting components. His main tasks in PRO3 included:

- » Prototyping on Linux Based System (Raspberry Pi) and TTTech TTC 510/580 ECU Embedded System
- » Mathematical calculation of light distribution in software
- » Matlab/Simulink Development for Embedded Controller

We can confirm that the PRO3 Phase took at least 225 hours in total outside of the lecture period.

Right from the start, Mr. Oral showed great interest in the agreed area of responsibility. When it comes to more complex issues, he is always motivated to fully understand the problem. He completes the tasks assigned to him independently and to our complete satisfaction. He can also use his previous knowledge in the field of Python Programming and Model-based Development in Matlab/Simulink in a variety of ways in this project. The main goal was to transition a Python-based logic to a Simulink Model with additional improvements and new functionalities. Also, the usage of Embedded Coder and optimization for Embedded Systems for ARM Microcontrollers was part of the project.

Mr. Oral integrated into our team very quickly and is a very beloved colleague.

DocuSigned by:



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Bernd Feldmaier  
Head of E/E Components



Christian Schickhuber  
Lighting Components