YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

EDAG PRODUCTION SOLUTIONS

COOPERATIVE STUDY PROGRAM 2022

04/02/2022

Cooperative Study Program 2022 Author: Dirk Mehler Version: 24.01.2022

PROGRAM SCHEDULE COMPUTER SCIENCE



UMA	1S1	Calculus for Informatics	Physics Foundations of Programming	Electronics Fundamentals of Informatics	Fundamentals of Programming	Discrete Mathematics	
UMA	152	Algebraic Structures for Computers	Statistical Methods for Informatics	Business Organization	Object-oriented Programming	Computer Technology	
UMA	251	Analysis and Design of Algorithms	Databases		Data Structures	Automata Theory and Formal Languages	
UMA	252	Introduction to Software Engineering	Concurrent Programming	Networked and Distributed Systems	Intelligent Systems	Operating Systems	
UMA	3S1	Information Management	Requirements Engineering	Software Modelling and Design	Computational Techniques in Software Engineering	Formal Methods in Software Engineering	
UMA	352	User Interfaces	Software Maintenance and Testings	Security in Services and Applications	Web Applications Technologies	Professional and Legal Issues	
Fulda UAS	4S1	Projektmanagement	Robotik	Simulation	Softwareentwicklung für eingebettete Systeme		
Company/ Fulda UAS	4S2	Künstliche Intelligenz und maschinelles Lernen	Web Applik tione / C Webprogrammerung		Internship (1	Internship (12 ECTS)	
Company	5S1	BACHELOR THESIS (12 ECTS)					

PROGRAM SCHEDULE MECHATRONICS



Y1 S1	Math I	Math II	Chemistry	Computer science	Technical drawing	Physics I			
Y1 52	Math III	Statistical and operational research	Business management	Computer science	Technical drawing	Physics II			
Y2 S1	Circuit theory	Electronic principles	Material resistance	Computer principles	Math complements				
Y2 S2	Automation	Electronics	Feedback contri principer	Dilit: Electronics	Machine and mechanism theory				
Y3 S1	Computer control	Industrial facilities and electric machines	Electronic systems	Thermal Engineering	Hydraulic engineering	Digital signal processing			
Y3 S2	Robotics principles	Electronic instrumentation	Power electronics	Network architecture	Business management	Industrial integrated projects			
	[+			
01.08 30.09.	BBZ manual metal processing	BBZ CNC	BBZ pneumatic	Intensive course German					
	BBZ manual metal processing	BBZ CNC	BBZ pneumatic						
30.09.	BBZ manual metal processing Computer industry	BBZ CNC Perceptual systems	BBZ pneumatic Electronics for automation		Automation of production systems	Bus-systems			
				German		Bus-systems			
30.09. Y4 51	Computer industry	Perceptual systems VLSI-Design	Electronics for automation Lab exercises automation systems	German Robotics laboratory Automation systems		Bus-systems			
30.09.	Computer industry Sensors Control and programming	Perceptual systems VLSI-Design	Electronics for automation Lab exercises automation systems	German Robotics laboratory Automation systems	production systems Special Topic	Bus-systems			
30.09. Y4 51	Computer industry Sensors Control and programming of Robots	Perceptual systems VLSI-Design	Electronics for automation Lab exercises automation systems	German Robotics laboratory Automation systems	production systems Special Topic	Bus-systems			

PRESELECTION CRITERIA INFORMATICS



Mandatory when starting the phase in Germany:

- All exams of the years 1,2 & 3 in Software Engineering / 1 4 in Computer Science
- German Level A2
- English Level A2 (necessary for the application at University of Fulda)
- Upper second (8) or first class (9-10) examination results
- Willingness to travel internationally
- Outstanding motivation and commitment
- High degree of social competence
- Capacity for team work
- Excellent communication
- Clear and analytic mindset

PRESELECTION CRITERIA MECHATRONICS



Mandatory when starting the phase in Germany:

- All exams of the years 1,2 & 3
- Branch Robots and Automation
- German Level A2
- English Level A2 (necessary for the application at University of Fulda)
- Upper second (8) or first class (9-10) examination results
- Willingness to travel internationally
- Outstanding motivation and commitment
- High degree of social competence
- Capacity for team work
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STUDYING MECHATRONICS WITH EDAG ENGINEERING GMBH SEGMENT E/E

2 candidates for MECHATRONICS studies are wanted

planned employment in Vehicle Electrics & Electronics department

main activities within complete vehicle development projects are:

- EE-Architecture development, i.e.
 - Wiring Harness System Design
 - Feature Integration, Test &Validation
 - Topology & Network definition, Diagnosis Concepts
 - Integration/Validation
- · Project Management in Component Engineering
- Requirements Engineering (e.g. Costs, Functionality, Timing, Weight, Quality)

typical jobs in daily business:

- Component Release Engineer
- System Release Engineer
- System Integration Engineer
- Design Engineers
- Quality Manager



GENERAL CONDITIONS



- Applicant selection and interviews through technical specialists and HR department
 - \Rightarrow Handover of training contract to selected students
- 4 training positions per year for 2022
- Monthly salary during the entire program in Germany
- Dismissal of training contract after failing of study objectives
- Salary: 970 Euro/ month (12.85 payments / year) for the entire 1.5 years
- EDAG PS pays for the registration at Uni Fulda (approx. 3 x 300 €)
- Free accommodation in a "EDAG house" or a flat for the first period (3 months)
- Subsequent housing allowance (150 Euro after exhibiting rental contract)







GENERAL CONDITIONS



- First outbound and last return flight is paid at the scheduled start and end of the program (Economy Class)
- Good cultural integration during the first study period in Germany Continuation though integration in the working life of the company
- Indefinite contract after successful completion of the program (commitment clause for 2 years)
- Creation of an individual training schedule and development program of the company
- Job location in mutual agreement after the program in dependency of project situation





PLAN FOR 2022



Торіс	Responsible	Date latest
Pre call to students	Uni Malaga	February 2022
Starting German Class	Uni Malaga	February 2022
Presentation to students and call for application	Uni Malaga / EDAG PS	February 2022
Application of students until		March / April 2022
Interviews and selection and contracts (two days)	EDAG PS at Uni Malaga	May / June 2022
Contract between student and EDAG PS	EDAG PS at Uni Malaga	Same day
Start first students at EDAG PS in Fulda with basic training		2022-08-15 / 2022-09-01

REQUIREMENTS



Necessary status for Students Mechtronics:

- All exams for obligatory subjects of the first 3 years must have been passed
- German Level A2
- English Level A2 (necessary for the application at University of Fulda)
- Branch Robots and Automation

Necessary status for Students Computer Science / Software Engineering:

- All exams of the years 1,2 & 3 in Software Engineering / 1 4 in Computer Science
- German Level A2
- English Level A2 (necessary for the application at University of Fulda)

Necessary Information for Application:

Cover Letter in English

Academic Record

CV in English

Application in German is even better

