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Higher Education Learning Agreement for Traineeships

Daniel Dobiński
2015/2016

After the Mobility

Table D - Traineeship Certificate by the Receiving Organisation/Enterprise
Name of the trainee: Daniel Dobiński
Name of the Receiving Organisation/Enterprise: Fraunhofer Institute for Integrated Circuits IIS, Design Automation Division EAS
Sector of the Receiving Organisation/Enterprise: Integrated circuits / Design automation
Address of the Receiving Organisation/Enterprise: Zeunerstr. 38, Dresden, Germany, +49 351 4640 - 701, info@eas.iis.fraunhofer.de **website: http://www.eas.iis.fraunhofer.de/en.html**
Start date and end date of traineeship: from [day/month/year] 1.11.2015 to [day/month/year] 31.12.2015
Traineeship title: Analysis of MOSFET degradation mechanisms in integrated circuits
Detailed programme of the traineeship period including tasks carried out by the trainee: Introductory phase (2 weeks) - Getting to know semiconductor degradation mechanisms and describing models - Getting to know AMS design environments and reliability simulation extensions - Deliverable: concept for model development and tool integration Development phase (4 weeks) - Development of model structure for important degradation mechanisms - Fit of model parameters to example degradation data from foundry - Model implementation into tool environment - Deliverable: model developed and integrated Test and demonstration phase (2 weeks) - Model test in tool environment using a circuit example - Model improvements based on first results Deliverable: Demonstration of model function for simulation of circuit degradation
Knowledge, skills (intellectual and practical) and competences acquired (achieved Learning Outcomes): - **Understanding of front-end-of-line degradation mechanisms in advanced technologies** - **Analysis of degradation data** - **Application of the Cadence RelXpert degradation simulator**

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Evaluation of the trainee:

Evaluation of the trainee	**FAIL**	**Poor**	**Good**	**Excellent**
A. Placement/Assignment				
Applicability of knowledge and results to the needs of the organisation			x	
Method of working while performing the assignment			x	
Results			x	
B. Attitude towards work				
Self-employment				x
Initiative				x
Responsibility			x	
Involvement			x	
Speed of work			x	
Planning			x	
C. Social skills				
Contact with staff members				x
Contact with executives				
Contact with external people				
Adaptation to organizational rules				x
Students' capacity to integrate with organization and foreign cultures				x
D. Personal qualities				
Flexibility				x
Creativity			x	
Criticism towards own work				x
Willingness to revise own work or attitude				x
Persuasiveness				x
Handling work pressure				x

Perspectives:

Would you like to receive a trainee from Lodz University of Technology?

x YES

☐ NO

If YES, please describe:

- **duration**
- **working hours**
- **project description**
- **tasks of the Erasmus trainee**
- **requirements**
- **what you offer**
- **how to apply**

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Date: Dec. 22, 2015

Name and signature of the Supervisor at the Receiving Organisation/Enterprise:

Kay-Uwe Giering

Dr. Kay-Uwe Giering
(Supervisor)

Roland Jancke
(Group leader "Reliability and Test")