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| **1. Knowledge and understanding** | |
| **1.a Knowledge and understanding of the research area** | **YES** |
| I have taken the following graduate courses:  - Industrial Cloud Computing  - Fixed-priority scheduling with limited preemptions  - Principles of Cyber-Physical Systems (ongoing)  I have attended the following schools, workshops and conferences:  - COMPSAC 2014, FMoT forum for cloud computing at ABB, SIGMOD/PODS 2015, CPS Week 2016  - 2015 UPMARC Summer School, 2015 LASER Summer School, 2015 EMSIG Autumn School  I have attended the following webinars, seminars, licentiate and doctoral proposals and presentations:  - licentiate/PhD seminars and presentations  - lectures given by guest professors at MDH  - seminars in other research groups at MDH  - seminars in other universities (Uppsala University, DTU, Aalborg University, ETH, etc): verification (UPMARC 2015), cyber-physical systems (EMSIG 2015), concurrency (LASER 2015), etc  - SICS Open Day presentations | |
| **1.b. Specialist knowledge in a defined part of the research area** | **YES** |
| I have taken the following graduate courses:  - Concurrency: the Next Frontier  - 2015 EMSIG Autumn School  - Advanced Validation and Verification (ongoing)  I have conducted a state of the art study  I have contributed with research results via the publications listed in Section 2.  I have participated in the following workshops and conferences:  - ECRTS 2015, CPS DATA 2016 | |
| **1.c. Deep knowledge of research methods in general, and of research methods in the specific research area** | **YES** |
| I have taken the following research methods courses and/or training:  - Research Planning  - Research Methods in the Natural Sciences and Engineering  Remaining activities:  **- Review scientific articles and papers of other researchers** | |

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| **2. Competence and skills** | |
| **2.a.a Critically and independently identify and formulate research questions** | **YES** |
| I have written the articles and papers listed in Section 2.  I have written the lic thesis proposal. | |
| **2.b Contribute to the development of knowledge** | **YES** |
| I have written the articles and papers listed in Section 2.  I have announced the following master thesis:  - Data aggregation support in real-time database management systems (with Mimer)  I have supervised the following theses:  - Model-checking transaction properties for concurrent real-time transactions in UPPAAL  I have assisted teaching and/or lectured in the following courses:  - Database course (DVA234) | |
| **2.c. Orally and in writing present and discuss research results with the national and international scientific community, and the society in general** | **YES** |
| I have attended, with own contributions, the following seminars, workshops and conferences:  - ECRTS 2015, CPS DATA 2016  I have participated in the following co-production research/projects:  - visiting companies Komatsu, ABB Robotics, Ericsson and Mimer, and discussing with engineers on real-time database and data aggregation | |
| **2.d. Independently conduct research and development** | **YES** |
| I have as main driver conducted research for and written all papers listed in Section 2.  I have conducted research visits with the following external partners:  - Komatsu.  - ABB Robotics  - Mimer  - Ericsson  I have conducted scientific work with the following external partners:  - Mimer. We have announced a master thesis together.  - Ericsson | |

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| **3. Judgment and approach** | |
| **3.a. Demonstrate ability to make ethical assessments in own research** | **YES** |
| I have participated in the planning of my own research.  I have taken the following courses that include discussions of research ethics:  - Research Planning  - Research Methods in the Natural Sciences and Engineering | |
| **3.b Demonstrate understanding of science's role and use in society, including its possibilities and limitations, and responsibility of its use** | **YES** |
| I have participated in the seminars listed in 1.1a above.  I have participated in the co-production research/projects listed in 2.2 above. | |
| **3.c Identify one's need of further knowledge and take responsibility for one's learning** | **YES** |
| I have participated in the planning of my own research.  I have taken the courses listed in 1.1a above.  I have written and published the papers listed in 1.1b above.  I have supervised the thesis listed in 2.1b above. | |

**Summary of remaining activities:**

* Review scientific articles and papers of other researchers