

## **Secondment Report Form**

Id: RUAG Space AB
Name: RUAG Space AB, Göteborg, Sweden
Space application antennas (communication & navigation)
-

## ACTIVITIES DURING THE SECONDMENT

During my stay in RUAG Space AB I was designing microstrip space application patch antennas destined for European Student Earth Orbiter and European Student Moon Orbiter (European Space Agency projects). In my work I focused on influence of antenna geometrical dimensions and shape on its parameters (especially wideband). My main activity was to methodically and systematically check new ideas in CST Microwave Studio and simulate in search of better solutions to achieve given requirements.

I regularly consulted my work with employees of Antenna and Microwave Department in RUAG Space AB. My direct supervisor was chief engineer of electromagnetics Joakim Johansson and I was obligated to present results of my work every week in front of electromagentics and antennas experts. Thanks to those meetings my knowledge about problems that I have to face and foresee in designing antenna for space application was greatly broaden.

During my stay I was also presented with different ideas from what I did and that helped me to take new approach in my design so now I can design even better antenna at less effort and better manage my time which as a result will shorten the way to achieve my goal. Experts from RUAG Space pointed out main issues that should be particularly taken under consideration during antenna design process.

MAIN RESULTS OF THE STAY				
< List of the publications co-written (or in progress)>				
Number of Publications: 0	Other(s): (1) (in progress) Bachelor's Thesis: "Bipolar, thin-profile, S-band, space application antenna."			
Number of Documents/ Reports: 0	(2)			
Number of Case Studies & Demonstrators: /	(3)			
* Attach all relevant documentation that specifies your results				
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## FORECAST ACTIVITIES

My work manner, following the secondment project, will not be changed in comparison to what I did before this secondment. I will only apply and add to my work what I have learnt during my stay at RUAG Space. This includes new ideas and some new approaches to solving problems I have met.

In order to improve CARE's secondment program, please fill this short questionnaire. Use the space at the end to expand your answers, if needed. Our aim is to improve the general experience for secondees in future.

secondees in future.				
г	Disagree ∢	> Ag	gree	
	GENERAL			
My objectives were achieved.  The research topics were relevant to my work.  I benefited from being part of a wider research culture.	1 🗆 2 🗆	3 □	4 X 4 X 4 X	
HOST ORGANIZATION				
I am satisfied with the quality and quantity of supervision I received.  I had access to adequate resources to support my research			4 X 4 X	
SECONDMENT PROGRAM				
I would recommend this secondment programme to others.  I believe the skills I have learned will help me to improve my job/research.  I would apply to another programme similar to CARE.  In general, how would you classify the CARE Secondment Programme?  Other questions/comments to be potentially considered:	1	3	4 X 4 X 4 X 4 X 4 X	
SIGNATURES				
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