

FORM TECH-6

CURRICULUM VITAE (CV)

Position Title and No.	K-3, Robotics and Automation Expert
Name of the Expert:	Dr.-Ing. Daniel Hahn
Date of Birth:	08.12.1969
Country of Citizenship/Residence :	Germany

Education:

Diploma in Mechanical Engineering in year 2000

PhD in 2007: "Mobile Industry Robot for small batch Production"

Employment record relevant to the assignment :

Period	Employee organization and your title/position. Contact info for references	Country	Summary of activities performed relevant to the assignment
2001 - 2007	APS GmbH - European Centre for Mechatronics	Germany	Researcher
2007 - 2013	APS GmbH - European Centre for Mechatronics	Germany	Team Leader
2013 - now	APS GmbH - European Centre for Mechatronics	Germany	CEO

Membership in Professional Associations and Publications:

IEEE, German Research Foundation, AiF German Federation of Industrial Research Associations

Language Skills (indicate only languages in which you can work) :

_English_____

Adequacy for the Assignment:

Detailed Tasks Assigned on Consultant’s Team of Experts:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
<p>Assist the Team Lead and team with technical advices and works in preparing framework, strategies, training modules etc. , in preparing suitable documents and in execution for any other deliverable , especially concerned with their expertise.</p> <p>Track1-Technology Development</p> <ul style="list-style-type: none"> • Training of TC employees as per agreed calendar • Batch training of TC employees at MTP facility • Framework for technology adoption by MSME • Engagement Plan for exposure of Indian MSMEs to leading global MSMEs • Technical Workshops for MSME 	<p>Dr.-Ing. Daniel Hahn, born 1969, studied Mechanical Engineering at the Technical University Aachen (RWTH Aachen). In the year 2001 he joined APS – European Centre for Mechatronics as a Research Scientist. At APS, he successfully accomplished the national projects “Service Interface” and “Workshop Robot” funded by the DFG (German Research Foundation) as well “Mumasy” (German Ministry of Education and Research) and “Dockwelder” (FP5). 2007, he got his PhD in the topic of robots in a workshop-oriented production. In FP 6, Dr. Hahn was responsible for the R&D within the project “OSIRIS” at APS and contributed to the IP “Socrates”. Further, he is the senior researcher for APS in the FP7 flagship project “IMC-AESOP” and Dr. Hahn was invited as a panelist to the IEEE IECON IES Industry Forum in Melbourne regarding Next Generation Industrial Communication. Furthermore, Dr. Hahn has successfully accomplished several industry projects and he is giving lectures and presentations. Besides his know-how in project management, he has extensive experience and considerable knowledge in the fields of IT tools for manufacturing, automation strategies, human-centred engineering, and mechatronical solutions.</p> <p>In addition, Dr. Hahn developed a new online learning platform with remote access to a real robot. This learning platform has already 10 members in India with Indian students executing five different industry projects with Assembly, Welding, Sense&Pick&Place and Palletizing. This program includes a 6 weeks remote faculty training and a 2 week faculty training in Germany. The professors are taught in robotics, robot control and simulation for knowledge transfer to their students at their university/college. This included the preparation of all the documents, learning modules, lectures, project descriptions, HOWTOs as well as the set-up of the technical and communication infrastructure. Furthermore, a student exchange program had been initiated in 2014 with APS responsible for the scientific part in addition to automotive plant and fair visits.</p> <p>Dr. Hahn was in Feb. 2015 invited to Chittkara University / Chandigarh to the Indo-German week as research expert giving lectures to students as</p>
<p>Track2- Human Skill Development</p> <ul style="list-style-type: none"> • Static Content for e-learning module of existing and new training programs • Training of trainers plan and content/material 	
<p>Track3- Advisory on Technical upgradation of existing TCS and setup of new TCs</p> <ul style="list-style-type: none"> • Recommendation on manufacturing process and techniques of TCs -With training & Documentation • Standard Operating Procedures for TCs-Training & Documentation • Process for TCs to provide production and design support for MSME-Training & Documentation • Process of TCs to provide technical advisory on designing, prototyping, testing & calibration and applied research-Training & Documentation • BOM for TCs along with cost estimates • Technical Infrastructure and Technical Investment Plan sections for DPR of each TC • TOR for Hardware, software and equipment vendor • Design layout /Infrastructure requirement for machinery and equipment for TCs • Addressing vendor queries and technical - commercial evaluation of proposals • Capacity Building of TC employees on procured equipment/software 	

	<p>well as presentations to the industry forum.</p>
<p>Track4- Technical Advisory</p> <ul style="list-style-type: none"> • Technical Advisory for MSME approaching TCs 	<p>APS has a broad spectrum of potential partners and can advise MSME approaching TCs. Furthermore, APS could be compared with a Technology Center as envisaged in this proposal. APS looks back at a 30 years old successful history with the three columns of research, development for industry and education. Therefore, APS could act as a blueprint for India supporting the migration of MSMEs into engines of growth for the Indian economy.</p>

Expert's contact information:

Dr.-Ing. Daniel Hahn

CEO

APS GmbH - European Centre for Mechatronics

Vaalser Strasse 460


52074 Aachen

GERMANY

Certification:

I, the undersigned, certify that to the best of my knowledge and belief , this CV correctly describes myself, my qualifications, and my experience, and I am available to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

Daniel Hahn		03.11.2015
Name of the Expert	Signature	Date

Daniel Hahn		03.11.2015
Name of authorised Representative of the Consultant	Signature	Date