

## Consultancy and R&D Projects of Dr K Badari Nath

	<b>Title of Project</b>	<b>Sponsoring Agency</b>	<b>Amount of grant</b>	<b>PI OR CO-PI</b>	<b>Present Status</b>
1.	Consultation for Improvement in Hardware & Software Design for computer controlled Fully Automatic Card Punching Machine	Aruna Industries, Manufacturers of Handlooms & Handloom accessories, Authorised CSTRI, Govt. Of India, Suppliers	2,00,000/-	PI	Completed [ 2010-11]
2.	Design , Development, Upgradation, Production of RV-AllInOne-Interface Card, RV-USBbased8051 cards, Accessories for Conducting PC and Microcontroller based Training and prototype/project development	RVCE, SIT, REVA, Jain University, BMSCE, Bannariamman Educational Trust	10 Lakhs	PI	Completed [ 2012-18]
3.	Development of C Library for different Interpolation algorithms to be adopted in Biomedical Instruments.	Micro Lab Instruments	Rs.10,000/-	PI	Completed [ 2010-11]
4.	Development & Integration of Software Modules for Electronic Jacquards for Indian Handlooms & Power looms	Sai Handloom Industries, (Manufacturers of Electronic Jacquards & textile machineries, Authorised CSTRI, Govt. Of India Suppliers), Hindupur, Andhra Pradesh	Rs.15Lakhs	PI	Completed. [ 2011-17]
5.	Graphics Application using C#.net for Industrial requirement	GCS Technologies, (Manufacturerers of computer controlled card punching machines, with clients all over India), Bangalore	Rs.1,00,000	PI	Completed [ 2013-15]

6.	Design & Development of electronic Jacquard, Software, Mechanisms for Mat weaving Handlooms	Rural Technology Action Group (RuTAG), IIT Madras  [ Installed at Pattamadai, Tamilnadu & Killimangalam, Kerala ]	Rs.1,00,000	PI	Completed, [ 2016-17]
7.	Development of Software and Design of Hardware infrastructure for Strain Monitoring of White topping on URBAN ROADS	Srushti consultants	Rs.9,36,000	CO-PI	Completed [ 2015-17]
8.	Cloud based framework for securing .net based software applications	Abhi Systems, Electronic System Manufacturers, Bengaluru	Rs.50,000/-	PI	Completed [ 2014-16]
9.	Android Communication Interface & App Development to BioMedical Analyser	Micro Lab instruments, Ahmedabad (Manufacturers of QualityBioMedical Instruments)	Rs.3,00,000	PI	Completed [ 2016-17]
10.	Application Development on Windows 7 to 10 platforms using .Net C Sharp tools for ELISA reader	Micro Lab instruments, Ahmedabad (Manufacturers of QualityBioMedical Instruments)	Rs.2,75,000	PI	Completed [ 2016-18]
11.	Windows CE 6.0 Application Development, with Multitasking for Coagulation Analyser	Micro Lab instruments, Ahmedabad (Manufacturers of QualityBioMedical Instruments)	Rs.3,00,000	PI	Completed [ 2016-18]
12.	Android Communication Interface & App development to Bilurubin Testing.	Micro Lab instruments, Ahmedabad (Manufacturers of QualityBioMedical Instruments)	Rs.2,00,000	PI	Completed [ 2017-18]
13.	Windows based Application Development for Luminometer	Micro Lab instruments, Ahmedabad	Rs.1,00,000	PI	Completed [ 2017-18]

14.	Software Framework Development for Textile Weave,Color Pattern Designing and Simulation	IORA Technologies, Bengaluru	Rs.1,00,000	Co-PI	Completed [2018-19]
15.	Software Framework for Bitmap Designs to Mat Designs suitable For Electronic Jacquard fitted to Mat Weaving Loom.	RuTAG Cell, IIT Madras	Rs.50,000/-	PI	Completed [2018-19]
16.	ARM Microcontroller based All-In-One Product Prototyping and Lab experiment Kit (successfully designed the boards and manufactured 40 kits for CSE, RVCE Lab)	RSST (Mfr: Orion Computers, Bangalore)	Rs.4,24,800	PI	Completed [2019-20]
17.	Software Upgradation of Electronic Jacquard for 5372 Hooks (Client-Mysore Silks, Govt. Of Karnataka)	Venkateshwara Industries, Hindupur	Rs.50,000/-	PI	Completed [2020-21]
18.	Biological Liquid Colour Identification & classification, Colour Identification on Medical Coated Strips	Micro Lab instruments, Ahmedabad (Manufacturers of QualityBioMedical Instruments)	Rs.1,00,000	PI	Ongoing [2020-21]
19.	Liquid flow and Level detection	Micro Lab instruments, Ahmedabad (Manufacturers of QualityBioMedical Instruments)	75,000/-	Co-PI	Ongoing [2020-21]
20.	Software for Madur Superfine Masland Design Mat/ Korai Superfine Mat Using Electronic Jacquard Handloom	RuTAG Cell, IIT Madras	50,000/-	PI	Ongoing [2022-23]
21.	Porting of Serial Communication Module from Windows Platform to Linux Platform, for BioMedical Analyzer.	MicroLab Instruments	15000/-	PI	Completed [2022]
22.	Software Development for Time Switch	Electronic Automation Private Limited, Bangalore	50,000/-	PI	Ongoing

23.	Design & Development of HW and SW for Wifi enabled Industrial Handhelds using RaspberryPi-Pico and related C#.net Textile Conversion Softwares for Electronic Jacquards	Venkateshwara Industries, Hindupur	-	PI	POC stage [2022-23]
24.	Design & Development of STM-ARM cortex M7 based Industrial Computer, with BSPs and Application Porting.	Anil Industries, Hindupur	-	PI	POC stage
25.	Design & Development of RV-IOT-Board with Design of Experiments	CSE Dept, RVCE / Orion Computers	-	PI	POC stage