

# Bagadi Tarun Kumar

<https://github.com/tarunkumarmpc>

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## OBJECTIVE

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## EDUCATION

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- **Indian Institute Of Information Technology Guwahati** Guwahati ,India  
*Bachelor Of Technology in Electronics and Communication Engineering ; CGPA : 6.13/10* 2015 – 2019
- **Sri Chaitanya Junior Kalasala** Visakhapatnam, India  
*Higher Secondary Education ; Percentage : 91.7* 2013 – 2015
- **Bhashyam Public School Srikakulam** Srikakulam, India  
*Secondary Education ; CGPA : 9.2/10* 2013

## TECHNICAL SKILLS

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- **Programming Skills** : C, Java, Python, Verilog, Matlab, Embedded C, Assembly
- **Operating System** : Windows, Linux ,Ubuntu, Centos
- **Software Tool** : Software Tools: Matlab, Code composer studio, HFSS, NI Labview, Multism , LTSpice, Cadence, Atmel Studio 7.0, Keil uvision 4

## PROJECTS

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- **Velocity Consensus of Multiple Robots**  
*Major Project Dr.Surajit Panja,IIIT Guwahati* Aug 2018 - Nov 2018  
The main motive of the project is to make all the robots attain same velocity. The communication among the robots is done by LCMLightweight Communications and Marshalling.  
**Robots used** : Fire Bird VI  
**Programming language used** : Python.
- **Gibbs Phenomenon**  
*Course Project Mansoor Khan,IIIT Guwahati* Aug 2016 - Nov 2016  
The project was aimed at analyzing gibbs phenomenon and method used to reduce gibbs phenomenon using chebyshev filter  
**Software used** : MATLAB
- **Double Threshold Energy Detection Method for Cognitive Radios**  
*Course Project Dr.Kukil Khanikar,IIIT Guwahati* Aug 2018 - Nov 2018  
The project focused on spectrum sensing techniques for cognitive radio and observed the efficiency of Double Threshold Energy Detection in cooperative spectrum sensing.  
**Software used** : MATLAB
- **National anthem in movie theatres**  
*Course Project Dr. L David Lal,IIIT Guwahati* Mar 2017 - Apr 2017  
The project was aimed to conduct a survey on national anthem in movie theatre. To know how people are reacting to this new policy made by our government . A survey was conducted and an extensive analysis on the resulting statics were studied and presented.
- **Technology:- Language Cognition and Culture**  
*Course Project Dr. Suranjana Barua* Aug 2018 - Nov 2018  
The topic of discussion on this project how technology effects our language cognition and culture

## POSITION OF RESPONSIBILITY

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- Core team member, YUVAAN 2017 annual techno-cultural festival, IIIT Guwahati.
- Core team member, YUVAAN 20176 anual techno-cultural festival, IIIT Guwahati.
- Member of catering team YUVAAN 20176 anual techno-cultural festival, IIIT Guwahati.
- Student coordinator for ARM and FPGA Workshop organized at IIIT Guwahati.

## WORKSHOP AND TRAINING

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- Attended Workshop on Digital Signal Processing (DSP) organized by Indian Institute of Information Technology Guwahati in association with EdGate.
- Attended Workshop on FPGA based system design organized by Indian Institute of Information Technology Guwahati in association with Coreel Technologies.
- Attended Workshop on ARM organized by Indian Institute of Information Technology Guwahati in association with Mapusoft Technologies.
- Attended Workshop on Soft Skills organized by Indian Institute of Information Technology Guwahati in association with SkillGym.

## COURSES

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- **Electronics and Communication** : Basic Electronic Circuits, Digital Logic and Design, Communication Networks, Analog Integrated circuits, Digital Signal Processing, Principles of Communication, Digital Communication, Semiconductor Devices, Signals and Systems, Analog Circuits, Electro magnetic theory , Control System, Microwave Engineering, VLSI design, Embedded Systems
- **Computer Science** : C Programming, Java Programming, Operating Systems, Computer Architecture and Design, Data Structures and Introduction to LINUX.
- **Mathematics and Science** : Complex Numbers, Partial Differential equations, Differential Equation, Real Analysis, Linear Algebra, Probability and Stochastic Processes, Complex analysis, Physics, Chemistry and Biology.
- **Humanities** : Language, Cognition, Culture, Microeconomics, Introduction to Linguistics, Introduction to politics, Science Technology and Society.
- **Labs** : Linux Operating Environment, C programming, Operating Systems, Communication Lab, Digital Communication Lab, Analog Integrated Circuits Lab, Digital Design, Basic Electronic circuit ,VLSI Design, Microwave Design, Embedded Systems Lab

## LANGUAGES KNOW

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- can speak and write English, Telugu , Hindi

## STRENGTH

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- Positive Attitude,
- Hardworking.
- Leadership Qualities

## INTEREST AND HOBBIES

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- Listening music,
- Lan Gaming,
- Kabaddi,