

Akshatha K Vydula

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EDUCATION

Examination	Institute	Year	Aggregate
B.Tech in Electronics and Communication	R V College of Engineering	2016-2020	9.82 /10
XII, Senior Secondary Examination	Karnataka State Board	2014-2016	98.20%
X, Secondary Examination	Karnataka State Board	2014	96.96%

CO-CURRICULAR EXPOSURE

- JUN '18 - JULY '18 **Indian Academy of Sciences Summer Research Fellow** at Raman Research Institute. Worked on Application of wavelets for the detection of the Global 21cm signal from the Epoch of Reionisation. Wavelet transform was also implemented on a GPU using PyCuda to accelerate the computation.
- AUG '18 **Founder of dhRuVa**, Astrophysics Club of R V College of Engineering. Conducted regular Astronomy outreach programs and currently working on Instrumentation and Data Analysis Astrophysics based projects.
- SEPT '16 - DEC '17 **Chief Subsystem Engineer** Of Electronics and Control logic of Team Antariksh, Student Nanosatellite team of R V College Of Engineering.
- JAN '17- IEEE Student Member of RVCE Student Chapter.

PUBLICATIONS

RajithKumar B K, H.S.Mohana, **Akshatha K V**, et al. *Real time input text recognition System for the aid of Visually Impaired* International Conference on ISMAC in Computational Vision and Bio-Engineering (ISMAC - CVB 2018) and Springer - Lecture Notes in Computational Vision and Biomechanics.

PROJECTS

- AUG '18- DEC '18 Simulated Orthogonal Frequency Division Multiplexing on Matlab and characterised channel for different noise specification.
- JAN '18- APRIL '18 Developed a prototype for **Automatic platelet count in a blood smear** using Otsu thresholding and OpenCV library. Product was implemented on a Raspberry Pi3 and was interfaced with the Microscope. This project was funded by **Cisco Systems**.
- FEB '17 Developed a prototype of **Solar Bag**, a bag-pack with solar panels mounted on it which helps in charging phone and laptop on the go!
- SEPT '17- FEB '18 Worked on ROS and Drones in **e-Yantra**, Robotics competition conducted by IIT-Bombay and supported by MHRD.

COMPUTER SKILLS

Languages: Python, C, C++, MatLab, NumPy, CUDA & PyCuda

Operating Systems: Windows & Ubuntu

Frameworks: Xilinx, Kiel and Cadence

INTERESTS & ACTIVITIES

- SEPT'18 Participated in 5 day workshop on Fundamentals of 4G-LTE conducted by IEEE Student Chapter of R V College of Engineering.
- SEPT'18 Attended National Workshop on **Engineering Applications in Astronomy** by IUCAA
- AUG'18 Organized and Participated in IEEE's Student Transition and elevation Partnership at RVCE.
- JUL'18 Participated as Summer Research Fellow in **Indian Academy of Sciences' Mid year meeting** at Infosys Development Center, Mysore.
- MAY'18 Completed NPTEL certification on **Electromagnetic Theory** offered by IIT Kanpur.
- MAY'18 Completed NPTEL certification on **Principles of Signals and Systems** offered by IIT Kanpur.
- JAN'18 Completed Cisco IoT Application Development and Certification Program at RVCE.
- AUG'17 Attended National Workshop on Popularising Remote Sensing based maps and Geospatial Information conducted by **ISAC and ISRO**.
- MAY'17-JUN'17 Completed Six week Android App Development training & certification from Internshala.
- JUN'17-JULY'17 Completed Eight week Java training and Certification at Network for Information and Computer Technologies (NICT).
- JAN'17-FEB'17 Completed Six week **Introductory course on Cosmology** at M P Birla Institute of Fundamental research that gave an insight into Theoretical Astrophysics.
- MAY'12-JUN'12 Completed **Summer school of Astronomy and Astrophysics** at M P Birla Institute of Fundamental research.

AWARDS & ACHIEVEMENTS

- APRIL'18 Won a competition on efficient Traffic management system conducted by Govt. of Karnataka.
- MARCH'18 Won an **IEEE Ideathon** on Sustainable Water management system.
- AUG'17 Won a competition on **Space Missions** held at Indian Institute of Astrophysics, exploring possibilities of modern space technology through the aid of nanosatellites.
- FEB'17 Won a prototype exhibition competition for **Solar Bag** at Epsilon, Annual technical fest of PES University.
- 2016 Secured **6th rank** in Karnataka State Senior Secondary Examination (Class XII, taken up by **0.7 million** students annually).
- 2016 Secured **78th rank** in the State level Common Entrance test of Karnataka (K-CET, 2016, taken by **0.5 million** students annually).
- 2014 Regional topper of South Indian Mathematics Olympiad (SIMO).
- 2014 District topper in Karnataka State Secondary Examination (Class X).

EXTRA-CURRICULAR EXPOSURE

- Participated in State level Chess competition in High school.
- Active blogger on possibilities and anomalies of Physics. Find them [here](#).
- Regular contributor and editor of College Newsletter.

LANGUAGES

English, Hindi, Kannada, Telugu