Curriculum Vitae

**Chopparapu Ravi Teja**

Tempe, AZ

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| **Objective** | To acquire knowledge and improve my skills so that I can face real world challenges and be able to impact society through meaningful contributions. |
| **Motto** | Clean & Green - Healthy & Hygienic World |
| **Education** | |  |  |  |  | | --- | --- | --- | --- | | **Qualification** | **Name of the institute** | **Board/University** | **Year of Graduation** | | **PhD**  **(Civil, Environmental and Sustainable Engineering)** | **Ira A. Fulton Schools of Engineering** | **Arizona State University** | **2025 (anticipated)** | | Bachelor of Technology  (Mechanical Engineering) | Velagapudi Ramakrishna Siddhartha Engineering College | Jawaharlal Nehru Technological University- Kakinada | 2020 | |
| **R&D Projects** | 1. **Name:** Study of Microbial Lateral Transport in a 2-Dimensional Porous Media   **Name of Centre:** WET Center, Arizona State University  **Position:** PhD Project, since Aug 2023   1. **Name:** ASU Regional Water Quality Monitoring Program   **Name of Centre:** WET Center, Arizona State University  **Position:** Research Aide, since Dec 2022   1. **Name:** Innovative Technology for Pathogen and Scale Formation Control for Sustainable Operations of Cooling Tower Systems   **Name of Centre:** WET Center, Arizona State University  **Status:** Yet to start in April 2024   1. **Name of Idea / POC / Innovation / Prototype:** Ocean Wave Energy Conversion   **Name of Centre:** Incubation Centre-VRSEC  **Research Position:** Principal Innovator  **Year of Innovation / Project Started:** September 2018  **Total Seed Grant (INR):** 1000  **Published work under this research project:** 1(Published paper), 1(Conference Presentation)  **Supervisors (VRSEC):** 1. Dr. N. Ravi Kumar, 2. Dr. M. Bala Chennaiah  **Status:** Completed.   1. **Title Of the Proposal:** Biodegradable Polymer Filter Made From Fiber Composites For Addition Of Nutrients To Water   **Year of Proposal:** December 2019  **Total Budget (INR in Lakhs):** 41.49  **Grant Organization:** BIRAC, Department of Biotechnology, India  **Proposal Reference No.:** BT/TEMP7245/NBM/06/19  **Published work related to proposal:** 2(Published Papers), 2(Conference Presentations) |
| **Awards** | 1. **University Grad Fellowship,** Spring’24, Spring’23, Fall’22 | Arizona State University 2. **Award name:** Vijayawada City Police Pratibha Award for Excellence in Intermediate   **Date:** August 8, 2017  **Value:** 8000 INR   1. **Award name:** Vijayawada City Police Pratibha Award for Excellence in SSC   **Date:** August 10, 2015  **Value:** 5000 INR |
| **Academic Experience** | 1. **Graduate Teaching Associate** - Environmental Microbiology - Fall 2023 – CEE 467/567 – Arizona State University. Focusing on aseptic techniques, media preparation, microbial culturing assays, Polymerase Chain Reaction, Quantitative Microbial Risk Assessment, Jar Test & Filtration. 2. **PhD** under **Dr. Morteza Abbaszadegan**, Professor of Environmental Microbiology and Engineering and Founding Director of the National Science Foundation (NSF) Water & Environmental Technology **(WET)** Center at Arizona State University.  * Skills acquired include Aseptic technique-Media making & culturing bacteria, PCR. * Familiar with BSL-2 labs, Biohazard waste protocol, autoclaving, chemical handling. * Research Aide for Regional Water Quality Project- Sampling and Microbial Assays. |
| **Term Project** | 1. Project Titled **“A Study on Raw Materials Used for Manufacturing of Carbon Black”.** |
| **Professional Body Memberships** | 1. Member at Institute of Engineers- India. 2. Member of ASCE – Phoenix Chapter. |
| **Software Skills** | Auto CAD, Solid Works, Python, C, C++ |
| **Publications** | **International Journals:**   1. **Ravi Teja Chopparapu**, et.al “Ocean Wave Energy- A Step Towards Recharging Batteries'' TEST Engineering & Management, Volume 82 January-February 2020, ISSN: 0193-4120 Page No.8774-8780.**(SCOPUS**) <http://www.testmagzine.biz/index.php/testmagzine/article/view/2226/1988> 2. **Ravi Teja Chopparapu** et.al“Biodegradable polymer filter made from fiber composites for addition of minerals and salts to water”, Materials Today:Proceedings, Volume 33, Part 8, 2020, Pages 5607-5611.**(SCOPUS)** <https://doi.org/10.1016/j.matpr.2020.03.713> 3. **Ravi Teja Chopparapu** et.al “A Review Article on Water Purification Techniques by Using Fiber Composites and Biodegradable Polymers”, AIP Conference Proceedings 2247, 040007 (2020). **(SCOPUS**) <https://doi.org/10.1063/5.0004069> 4. **Ravi Teja Chopparapu,** M B Chennaiah “Color Manufacturing by the Conversion of Microbial Stored Carbon using the Phase Change Principle”, Research Inventy: International Journal of Engineering and Science Vol.13, Issue 6 (June 2023), PP 36-43. <https://www.researchinventy.com/papers/v13i6/F13063643.pdf>   **International Conference Papers**:   1. Veda Vyas Chillapalli, Dr. M. B. Chennaiah, **Ravi Teja Chopparapu** et.al “Integrated Water System: A Study On Rural And Urban Water Management”, InDACON’20 at Indus University-Ahmedabad, Gujarat, India. 2. Naga Sai Dintakurthi, Dr. M. B. Chennaiah, **R T Chopparapu** et.al “Urban Water Distribution System: A Study On Water Supply Challenges”, InDACON’20 at Indus University- Ahmedabad, Gujarat, India. |
| **Student Leadership** | * **Students Acceptable** **President** for the **Arizona State University Graduate & Professional Student Association** (ASU GPSA) 2023-24. * General Elections - 967 VOTES (52.84%) * Run-off Elections - 193 VOTES (70.18%) |
| **Professional Sports** | 1. Trained for **Tokyo Olympics 2021** Track and Field in 100m Men. 2. School Champion in 100m and 200m Athletics. 3. Competed in Inter School Cricket Tournament (Nori Siva Ramakrishna Trophy-2013). 4. Participated in Inter School Badminton Tournament. 5. Competed in District Swimming Championship (under-14). |
| **Entrepreneurial activity & Personal Achievements** | * Founder of Brand **“BLISS”** in my undergrad college and made my friends as partners and we were a Successful Team under my Leadership. * Started a YouTube channel **“BLISS TV”** in November 2019. <https://www.youtube.com/channel/UC-rI0esA0GaxO8F3F9qXpIA> * Maintaining a Blog **“BLISS BLOG”.**   <https://ravitejachopparapu1998.blogspot.com/>   * Started a food stall **“BLISS BIRYANI ''** at AFOSEC-2K18 with a Revenue of 90,000 INR & **“BLISS CHINESE COOKERY”** at AFOSEC-2K19 with a Revenue of 70,000 INR. * Performed Personal Research on Employee Psychology and Ownership/Employer mindset for a Month in 2019 in Nellore City, India. * Maintaining a service-oriented trust **“CHOPPARAPU SEVA TRUST”** and adopted a needy person (beggar) found at railway station in May '17. <http://chopparapusevatrust.simplesite.com/> <https://www.youtube.com/watch?v=UpC5sgQvtq> * Story Writer – 5 stories narrated in 2021 in various genres. |
| **Personal Details** | Date of Birth : December 28, 1998  Sex : Male  Nationality : Indian  Languages Known : English, Telugu, and Hindi. |