Anup Sathya Sai Kumar

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EDUCATION

University of Maryland College Park, United States
M.Sc. - Human-Computer Interaction *August '19 - May '21*
- Thesis: "Enabling On-body Computing Using a Track-Based Wearable"
- Committee: Huaishu Peng (adv.), Niklas Elmqvist, Alex Leitch

PES University Bangalore, India
B.Tech. - Electronics & Communications Engineering *August '14 - May '18*
- Thesis: "Realtime On-chip Wireless Waveform Monitoring"
- Committee: Suresh Padmanabhan (adv.), R Mahadevan, TS Chandar

PUBLICATIONS

Calico: Track Based Interactive and Relocatable Wearables with Fast, Reliable, and Precise Locomotion: *Anup Sathya*, Jiasheng Li, Tauhidur Rahman, Huaishu Peng
Under review at CHI '22

Towards On-the-wall Tangible Interaction: Using Walls as Interactive, Dynamic, and Responsive User Interface: Zeyu Yan, *Anup Sathya*, Pedro Carvalho, Yongquan Hu, Annan Li, Huaishu Peng
CHI EA '21: Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems

Realtime On-chip Wireless Waveform Monitoring: *Anup Sathya*, Sowmiya Balaji, Amishi Gupta, Suresh Padmanabhan
IEEE 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI)

Visual Positioning System for Automated Indoor/Outdoor navigation: *Anup Sathya*, Abhinav Goel, Suresh Padmanabhan
IEEE 2017 TENCON - IEEE Region 10 Conference

RESEARCH AND TEACHING

University of Maryland College Park, United States
Graduate Researcher *January '20 - Present*
- Working with Dr. Huaishu Peng at the Small Artifacts Lab on multiple projects related to Wearables, Ubiquitous Computing, Tangible Interaction and Fabrication.
- Led to publications, presentations and submissions at CHI '21, UIST '21 and CHI '22.

University of Maryland College Park, United States
Teaching Assistant *June '20 - August '20*
- TA to Dr. Jennifer Golbeck for INST462 - Introduction to Data Visualization.
- Responsibilities included grading, office hours and project guidance.

PES University Bangalore, India
Undergraduate Research Assistant *May '16 - May '18*
- Research Assistant under Prof. Suresh Padmanabhan.
- Led a team of 5 to undertake inter-disciplinary projects with an emphasis on IoT and Signal Processing. Resulted in multiple papers and conference presentations.

WORK EXPERIENCE

University of Maryland College Park, United States
Assistant Web-Developer (Full-time) *July '21 - Present*
- Developing and maintaining 7 dynamic university-wide websites with 50k monthly visitors.
- Design, develop, test and maintain Drupal themes and layouts used across multiple websites.
- Develop and retro-fit open-source Drupal modules to fit University requirements.
- Previously a Graduate Assistant at a similar role with lesser responsibilities from August '19 to May '21.

Sasya Produce Bangalore, India
Co-founder — Design & Strategy *December '19 - July '21*
- Co-founded a fresh produce start-up focused on exposing high-value markets to Indian farmers.

- ○ Built design systems, pitch decks, marketing material, websites etc.,

Rapido India   Bangalore, India
UX Researcher (Part-time)   *June '18 - July '19*
   - ○ Designed user studies for around 150 participants to test and develop a ride-sharing driver app.
   - ○ Developed A/B tests to reduce user drop-off and flow errors.

Freelance Designer   Remote
Web Design, Visual Design, Game Design   *2013 - Present*
   - ○ Built multiple websites, landing pages, portfolios and stationery.
   - ○ Designed posters and marketing material for ∼150 events.
   - ○ Designed educational games/software commissioned by the European Union in collaboration with Kozminski University.

ADDITIONAL PROJECTS

Using a fiber laser to fabricate kinetic PCBs (ongoing): Working on a project envisioning PCBs as 3D functional kinetic objects

Improving prototyping workflows using a glove embedded with fabrication tools (ongoing): Approaching wearables specifically designed to function as a tool that improves workflows.

iQ Solutions (2019): Conducted User Research using the Contextual Design method at iQ Solutions to help inform a business decision involving an IRC platform.

Baltimore Museum of Art (2019): Conducted usability tests of the existing GoMobile site and created mock-ups for the redesign using insights from the testing.

Project Home'r (2017): Designed and fabricated multiple home automation devices based on the ESP8266 compatible with HomeKit and Alexa to tackle the high costs of voice assistant compatible devices.

3-axis Homebrew Gimbal (2015): Designed and built a 3-axis homebrew gimbal based on the simple 8051 Micro-controller architecture.

HONORS AND AWARDS

- Full tuition remission at the University of Maryland (∼$28000)
- Nominated for Graduate Assistant of the Year (top 2%)
- Graduate Excellence Award ($1000)
- Travel Grants (∼$2000)
- Zonal winner and finalist at the National Robotics Championship, India.
- Served as a Lance Corporal for 2 years in the youth wing of the Indian National Armed Forces.
- Represented India as a youth leader at the 3rd Annual Youth Forum conducted by the Asian Development Bank.

CONTINUING EDUCATION(MOOC)

Machine Learning, Stanford University, Coursera: Course Grade: 98%. This course provided a broad introduction to machine learning, data-mining, and statistical pattern recognition. Certificate

VOLUNTEER EXPERIENCE

Youth Development Programme (FSL India)   Bangalore, India
President & Board Member   *February 2015 - May 2016*
   - ○ Led a team of 7 to manage over 35 members.
   - ○ Engaged with around 2000 volunteers and participants over the course of a year to successfully execute 30 events.
   - ○ Chosen to represent India at D-SEE Manila, Philippines – funded by the Erasmus+ Program.

REFERENCES

Dr. Huaishu Peng: Assistant Professor, University of Maryland, College Park   huaishu@umd.edu
Dr. Tauhidur Rahman: Assistant Professor, University of Massachusetts, Amherst   trahman@cs.umass.edu
Dr. Rebecca Follman: Senior Web Developer, University of Maryland, College Park   huaishu@umd.edu
Prof. Suresh Padmanabhan: Assistant Professor, PES University   sureshpadmanabhan@pes.edu