

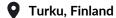
Uruj Sarwar

Cross-disciplinary experience in Biomedical Imaging, Medical Devices, Embedded Systems testing (Software & Hardware), & searching for Biotechnology industry-based opportunities

My Contact

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Education

- Åbo Akademi University (ÅAU), Turku, Finland
 - M.Sc. in Biomedical Imaging (BIMA) August 2017 – July 2019
- Sir Syed University of Engineering and Technology (SSUET), Karachi, Pakistan B.S in Biomedical Engineering January 2011 - March 2015

Skills

- Cell Culture, DanioVision, Bone cutting Precision Saw, & Slide Scanner
- Language usage of Python, Assembly, Embedded C, & RISC-V Assembly
- Troubleshooting Analog/Digital Circuits, Embedded Systems debugging
- Zeiss ZEN, EthoVision, FFmpeg, ANYmaze, Proteus, & BioimageXD
- Audacity/OpenShot (audio/video editing)
- · Microsoft Office, Windows, & Linux
- Mice brain sectioning (Cryostat) & dissections
- Familiarity with neurological conditions
- Remote work tools Zoom, Teams, Dropbox, Slack, & Thunderbird
- Technical, Creative, SEO, Copywriting, Research and Blogging Writing styles
- WordPress, Grammarly, familiarity with Scientific Publishing, JMP and SPSS

Research & Academic Projects

- Master's Thesis Developing a High Throughput (HT) System for monitoring Zebrafish Behaviour
 May 2018 - June 2019
- Bachelor's Final Year Project -Therapeutic Aural Insertable Electrode to Stimulate Mandibular Nerve for Trigeminal Neuralgia
 January 2014 - January 2015
- Semester Project <u>Diaphragm Pacing</u>
 March 2013 March 2014

Professional Experience

PromoTek Oy - Promotional Sales Seller September 2023 - Present

· Face-to-face seller to collect donations for NGOs and applying Digital Marketing tools

Aboa Space Research Oy (ASRO) - Microscopy Intern May - October 2023: Mini Fluorescence Microscope (MFM)

- MFM Software/Hardware Testing (µManager) to improve limitations in the Product Development cycle
- Developing Systems Engineering-based client Requirements (Valispace)
- · Market Analysis of current Microscopy-based technologies (Space & non-Space applications)

University of Turku (UTU)

Institute of Biomedicine – Project Researcher/Doctoral Researcher August 2019 – Present

- Osteoclastic cell cultures with Bisphosphonate-drug types & doses (Bone, <u>Biomaterial</u>, & Zebrafish samples)
- Drug screening assays for the above-mentioned samples (Fluorescence & Scanning Electron Microscopy)
- Image data collection & analysis protocols (ImageJ) for above samples and Zebrafish Histological samples

Department of Computing - Project Researcher (<u>FitOptiVis Project</u>) March 2020 - November 2021 (Partial Remote-work)

- Performed <u>Software Testing</u> (GitLab) & Bug Reporting of a Product design (System-on-Chip RISC-V)
- Product/Hardware testing on an in-house measurement system, with FPGA and JTAG tools

Turku Bioscience - Undergraduate Researcher (Neuronal Signalling Group - <u>Master's Thesis</u>) May 2018 - June 2019

- Developed a High Throughput (HT) Screening System by Microcontroller Interface & Camera (PiCam)
- System Testing with a White LED source (programmed light stimuli) to observe Zebrafish behaviour

Goethe University - Visiting Undergraduate Researcher (Background study for Master's Thesis) *November* 2018

· Behavioural testing & video tracking of mice towards acoustic stimuli and open-field experiments

Tecbz – Freelance Content Writer, Karachi, Pakistan December 2016 - August 2017

• Creating customer software documentation, copywriting marketing and product/service description tasks

Prolynxs - Manager [Start-up Business], Karachi, Pakistan April - December 2016

- Written communication documentation management tasks & SEO strategy in Blog writing for retail services
- Hiring/training employees for Marketing & Copywriting tasks, and engaging with clients

RealMacways - Senior Executive Content, Karachi, Pakistan March 2015 - March 2016

- Technical writing involved business proposals, Quantitative Market analysis & Internal Marketing
- · Created, edited, & proofread marketing content & copywriting tasks for web designing & retail services

Internships and Training – Hospitals and University-based experience 2012 - 2014

- · Hospitals: preventive maintenance, medical equipment inventory management & paperwork compilation
- University: familiarity with Raspbian and Biomimetics in a Line Follower Robot project using Python

Extra-Curricular Activities and Achievements

October 2023: Winning Team for Revvity HealthTech Hackathon by Boost Turku

August, 2019 - Present: Sports Tutor for CampusSport in Turku

August, 2022 - Present: Ilo Kuoro participant at the Turun Suomenkielinen Työväenopisto

July 2022: Volunteer work in IT and Technology part of the convention, Ropecon 2017 - 2019: Full tuition fee scholarship from ÅAU

May, 2018 - May, 2019: Academic Tutor for international master's degree program (BIMA at ÅAU) 2013 - 2014: Tuition fee scholarships from SSUET