

SYED JUNAID AHMED

MEDICAL PRODUCT DESIGN ENGINEER · FAB EXPERT, TESTING AND VALIDATION, MAKER, TECH EVANGELIST,

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“Make the change that you want to see in the world.”

Junaid is FABLAB Experienced Professional who is passionate about exploring technologies and innovation and a strong leader who believes in Systems Thinking and currently working in Medical Devices Innovation stream. Highly efficient in growing and maintaining engaged communities to enable collaborative learning. Leverages exemplary communication and in-person meetings to establish presence and capable of building strong Communities (Makers, StartUp) Takes initiative to be a leader, Able to work in unsupervised and team environment.

Experience

ANDHRA PRADESH MEDTECH ZONE LTD

CHIEF OPERATING OFFICER, MEDICAL SENSOR HUB

- Setting up of Centre to produce Medical grade sensors to be used in Medical Devices
- Helping startups to realise their products

Visakhapatnam

Mar. 2021 - Present

AIC-AMTZ Medi Valley Incubation Council

SCIENTIST-C

- To provide professional support to the startups in prototyping, sourcing etc..
- Establishing Medi Valley Laboratory in accordance with ISO 17025 for NABL Accreditation on Testing lab
- Supporting startups for compliance to ISO Standards (IEC 60601-1, IEC 60601-1-2).
- Indigenization Medical Devices such as OT Lights, AED and Syringe Pumps
- Program Manager for innovation calls.

Visakhapatnam

Mar. 2021 - Feb. 2022

Bio Valley Incubation Council

SCIENTIST-C

- Product development on Perfusion Device and Portable vaccine last mile devices
- Mentored startups on product development.
- Instrumental in validation, testing and Production of O2C for COVID 19 essentials.
- Setting up of Cryo Air Separation Unit 100Cu Mtrs per Hour Plant in peak for COVID 19 essentials.

Visakhapatnam

Oct. 2020 - Mar. 2021

AIC-AMTZ Medi Valley Incubation Council

SCIENTIST-C

- To provide professional support to the startups in prototyping, sourcing etc..
- Head for Pre Compliance Testing of Medical Devices and Calibration Labs at Medi Valley.
- Instrumental in validation, testing and Production of Ventilators for COVID 19 essentials.
- Industry Relation Officer for CoE Medical Electronics and Bio Physics funded by meitY.

Visakhapatnam

May. 2020 - Oct. 2020

AIC-AMTZ Medi Valley Incubation Council

RESEARCH FELLOW

- To provide professional support to the startups in prototyping, sourcing etc..
- Learned Pre Compliance Testing of Medical Devices.
- Learned Medical devices calibration in accordance ISO-IEC Standards.

Visakhapatnam

Oct. 2019 - May 2020

KALAM INSTITUTE OF HEALTH TECHNOLOGY -KIHT

RESEARCH FELLOW

- To provide professional support to the startups in prototyping, sourcing etc..
- Product development mentoring.

Visakhapatnam

May. 2019 - Oct. 2019

INNOVATION VALLEY(AP INNOVATION SOCIETY)

Visakhapatnam

INTERN AT INVESTMENTS AND COMMUNITY DEVELOPMENT

Jan. 2019 - May.2019

- To provide professional counseling to ideation Startups and engaging the startup community with different activities.
- Conducting Startup onboarding Events and Webinars.
- Program Manager for the Wadhvani Venture FasTrack Acceleration Program.

Makers Library

Bhimavaram

FABLAB MANAGER

Aug. 2017 - Jul. 2018

- Paper work related to getting approval for Fablab and classification of Tools and Machinery for Purchase
- Idea behind Makers Library to setup APs First FABLAB to bring the Fab community into Rural area.
- supporting makers and innovators to bring their ideas to reality.

VSM Research and Consultancy Center

Ramachandrapuram

RESEARCH ASSISTANT

Jan. 2016 - Dec. 2016

- Provide professional consulting services to students and Faculty.
- Develop, maintain and teach courses, support and supervise internships and research work.
- Management of Laboratory Equipment Asset Inventory.

Hackster.io USA

Andhra Pradesh

LIVE AMBASSADOR

Jul. 2015 - Jun. 2017

- Hackster Ambassadors run live events that benefit local communities of Hardware and Software Developers.
- Conducted workshops on Amazon Alexa Skill Building, Microsoft Azure IoT Platform, NXP Freedom Boards.

Makers Hive

Ramachandrapuram

FOUNDER

Dec. 2013 - Feb. 2015

- I started a Small Makerspace at my home to build customized projects and Promoting DIY (Do it Yourself) projects among student Community.
- Trained students to build their projects and understand how to make an idea to reality.

Education

VISHNU INSTITUTE OF TECHNOLOGY, BHIMAVARAM, A.P

62.78%

MASTER OF TECHNOLOGY IN ADVANCED MANUFACTURING SYSTEMS

Aug. 2017 - Jun. 2021

- Building a Cyber Physical Systems-Digital Twins (Seminar Project)
- OPTIMIZATION OF TOOL GEOMETRY PARAMETERS FOR FRICTION STIR WELDING OF NYLON PA-6

FABLAB KERALA, TRIVANDRUM, KERALA

Graduated

DIPLOMA IN PRINCIPLES AND APPLICATIONS OF DIGITAL FABRICATION

Jan. 2017 - Jul. 2017

- Developed a Fab Data Glass as part of the Program
- Worked on multiple technologies in a very short time and i was able to implement them perfectly

VSM COLLEGE ENGINEERING, RAMACHANDRAPURAM, A.P

64.91%

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING

Aug. 2012 - Jul. 2017

- Designed and Developed a 3D Printer Prototype
- Implemented prototype was used in the Research and Consultancy Center.

G.R.C JUNIOR COLLEGE, RAMACHANDRAPURAM, A.P

87.4%

SPECIALIZING IN MATHEMATICS PHYSICS AND CHEMISTRY

Jul. 2010 - Jun. 2012

- Selected for DST-SEATS-INSPIRE PROGRAM INTERNSHIP SCIENCE CAMP@ Rajahmundry
- Won Young Scientist Award, District Level 19th National Children's Science Congress.
-

Smt G.M.D MODERN HIGH SCHOOL, RAMACHANDRAPURAM, A.P

86.16%

SPECIALIZING IN MATHEMATICS AND SCIENCE.

Jul. 2009 - Mar. 2010

- Won Jana vignana vedika(A.P) District Level Chekumuki Science Talent Test.
- Participated in several scientific and Historic Event Commemorable Day Events.
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Extracurricular Activity

The Institution of Engineers (India)

ASSOCIATED MEMBER

Membership No : AM3057294

March. 2023 - Present

Institute Of Smart Structures And Systems (ISSS)

LIFE MEMBER

Membership No : LM814

Jan. 2023 - Present

American Society for Testing and Materials (ASTM International)

PARTICIPATING MEMBER

Membership No : 2376533

March. 2022 - Present

- Electronics; Declarable Substances in Materials; 3D Imaging Systems; Additive Manufacturing Technologies
- Medical and Surgical Materials and Devices

Optical Society of India (OSI)

REGULAR FELLOW MEMBER

Membership No : 1760

Nov. 2021 - Present

Society of Photo-Optical Instrumentation Engineers (SPIE)

EARLY CAREER PROFESSIONAL MEMBER

Membership No : 4353307

Oct. 2021 - Present

- Lithography ,Instruments and sensors
- Biomedical Optics
- Micro/Nanopatterning, Materials, and Metrology

Optica – Earlier known as Optical Society of America (OSA)

EARLY CAREER MEMBER

Membership No :1957146

Oct. 2021 - Present

- BB Optical Biosensors
- FL Lasers in Manufacturing
- PO Optoelectronics

Association for Computing Machinery (ACM)

PROFESSIONAL MEMBER

Membership No :7633367

May. 2019 - Present

Institute of Electrical and Electronics Engineers (IEEE)

MEMBER-VIZAG BAY SECTION

Membership No: 92553561

Jan. 2015 - Present

- IEEE Electronics Packaging Society.
- IEEE Electron Devices Society (EDS).
- IEEE Computer Society Member.
- IEEE Education Society Member.
- IEEE Robotics and Automation Society Member.
- IEEE Technology and Engineering Management Society Member.
- Life Sciences Community, IEEE.
- Internet of Things Community, IEEE.

The American Society of Mechanical Engineers(ASME)

EARLY PROFESIONAL MEMBER

Membership No:102240909

Apr. 2018 - PRESENT

Society of Automotive Engineers India (SAEI)

GRADUATE STUDENT MEMBER

Membership No : 7180429297

Sep. 2017 - Mar. 2019

Achievements, Awards and Certificates

2021	CERTIFICATE PROGRAM IN INDUSTRIAL DESIGN, INNOVATION AND ENTERPRENUERSHIP ,	IIT Delhi
2021	IS/ISO/IEC 17025: Laboratory Quality Management ,	BIS
2021	Medical Standards IEC/EN 60601-1 and IEC/EN 60601-1-2 ,	TUV Rheinland
2019	Lead Auditor Program on ISO 13485:2016,	BSI.
2018	Lean Six Sigma Green belt Certification-Binghamton University,	VEDIC, HYD.
2017	Lean Six Sigma Yellow belt Certification-Binghamton University,	VEDIC, HYD.
2016	Selected among 63 participants STEAM School Innovation Workshop ,	Mumbai
2016	Selected to participate in 11th Annual Innovation Competition ,	Kodakara, Kerala
2014	Selected among 100 participants LVPEI+MIT ReDx Innovation Workshop,	Hyderabad
2013	Participated in 100th National Science Congress,	Kolkata
2011	Young Scientist Award, District Level 19th National Children's Science Congress,	Tuni
2011	Selected for DST-SEATS Inspire Programme Internship Science Camp,	Rajahmundry

Presentation

IDEAL PRAGNAAN 2K15

KAKINADA

PRESENTED ON INTRODUCTION AND ADVANCEMENTS IN 3D PRINTING

Apr. 2015

- Awarded First Prize

SRINIVASA TECH FEST 2K15

AMALAPURAM

PRESENTED ON PORTABLE RESISTANCE SPOT WELDER

Mar. 2015

VSM LINUX 2K12

RAMACHANDRAPURAM

PRESENTED ON INTRODUCTION TO ROBOTICS

Dec. 2012

Projects

FAB DATA GLASS

FAB ACADEMY

MAKER

Jun. 2017

- A Low Cost Augmented display, to know the current temperature and Humidity, Pressure and Altitude and Light Intensity data without looking into the mobile while working, which uses the DHT11, BMP180, LDR Reading for Lux values, which was built using five processes: 3D Printing, CNC PCB Milling, Vinyl Cutter, LASER Cutting and LASER Engraving as per the requirement of the Fab academy.

SMILE - Sustainable modular intelligent lighting everywhere

STEAM SCHOOL

TEAM MEMBER

Dec. 2016

- The solution that our team came up with at the end of S.T.E.A.M school is a smart lighting pole. From the design aspect, the pole is modular especially the seating and can be deployed to the present solutions like using the solar panel, condenser, IoT solution separately. Second comes the sustainability factor where the whole structure is made of recycled aluminium, lastly from the intelligent aspect, it has a SOS button which sends a tweet with location, time stamp, date stamp and predefined hash tags and twitter handles in case of emergency, it also has an ambient light sensor that switches on the light using a relay only when it is needed, thus saving a lot of energy. All the module under the solar panel is designed in such a way that it collects moisture from the air and through capillary action the dew drops are used to wipe dust on the solar module effectively, thus increasing total efficiency.

Advanced Rapid Prototyping Device 3D Printer

Under Graduation Project

TEAM LEADER

Apr. 2016

- We have implemented the Advanced rapid prototyping device '3D Printer' as part of the final year project, we have used the fastbot3d BBBP 1S board to get high and accurate results for the 3D printing and also we have achieved the remotely controlling the 3D printer.

LOW COST BRAILLE PRINTER

LVPEI-MIT REDX

TEAM MEMBER

Jun. 2014

- Low Cost Braille Printer at ReDx workshop under the guidance of Dr. Elliott Rouse, Post-Doctoral Fellow at MIT Media Lab (Massachusetts Institute of Technology). This project is undertaken to develop a low cost portable braille printer because the present printer which is in market is so expensive.

More Info

Core Competencies

- Teaching
- Product Innovation
- Process Improvement
- Electronic Fabrication
- Research and Analysis
- Strategic Planning

Design and Computer Skills

- **Expert:** CAD Modeling, 3D Printing and Scanning, Electronic Hardware Prototyping
- **Working Knowledge:** C/C++, ARDUINO, HTML, Python, Photoshop, EAGLE CAD
- **Basic Knowledge:** AVR C, Micro python, KiCAD, LATEX

Personal Details

- **Date of Birth :** 31-08-1995
- **Fathers Name :** SYED LIYAQUATH ALI
- **Nationality :** INDIAN
- **Religion :** Muslim
- **Blood Group :** A+ve
- **Languages Known:** English, Telugu, Hindi/Urdu

Declaration

- I hereby declare that all the above mentioned information given by me is true and correct to best of my knowledge and belief.