

SYED JUNAID AHMED

PRODUCT DESIGN ENGINEER · FAB EXPERT, MAKER, TECH EVANGELIST

Flat No :405,NATARAJA PLAZA,MUSTAFA JUNCTION,KURMANNAPALEM,VISAKHAPATNAM,ANDHRA PRADESH,530046,INDIA

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

Syed is FABLAB Experienced Professional who is passionate about exploring technologies and innovation and a strong leader who believes in Systems Thinking. 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.

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

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.

SmtG.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.

Experience

ANDHRA PRADESH MEDTECH ZONE LTD

Visakhapatnam

CHIEF OPERATING OFFICER, NATIONAL SENSOR HUB

Mar. 2021 - Present

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

AIC-AMTZ Medi Valley Incubation Council

Visakhapatnam

SCIENTIST-C

Mar. 2021 - Feb.2022

- 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 Syring Pumps
- Program Manager for innovation calls.

Bio Valley Incubation Council

SCIENTIST-C

Visakhapatnam

Oct. 2020 - Mar. 2021

- 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 assentials.

AIC-AMTZ Medi Valley Incubation Council

SCIENTIST-C

Visakhapatnam

May. 2020 - Oct. 2020

- 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 assentials.
- Industry Relation Officer for CoE Medical Electronics and Bio Physics funded by meitY.

AIC-AMTZ Medi Valley Incubation Council

RESEARCH FELLOW

Visakhapatnam

Oct. 2019 - May 2020

- 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.

KALAM INSTITUTE OF HEALTH TECHNOLOGY -KIHT

RESEARCH FELLOW

Visakhapatnam

May. 2019 - Oct. 2019

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

INNOVATION VALLEY(AP INNOVATION SOCIETY)

INTERN AT INVESTMENTS AND COMMUNITY DEVELOPMENT

Visakhapatnam

Jan. 2019 - May.2019

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

Makers Library

FABLAB MANAGER

Bhimavaram

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.
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VSM Research and Consultancy Center

RESEARCH ASSISTANT

Ramachandrapuram

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.
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Hackster.io USA

LIVE AMBASSADOR

Andhra Pradesh

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.
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Makers Hive

FOUNDER

Ramachandrapuram

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.
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Extracurricular Activity

IEEE

GRADUATE STUDENT MEMBER-VIZAG BAY SUBSECTION

- 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.

Membership No: 92553561

Jan. 2015 - Present

Society of Automotive Engineers India

GRADUATE STUDENT MEMBER

Membership No : 7180429297

Sep. 2017 - Mar. 2019

The American Society of Mechanical Engineers(ASME)

STUDENT MEMBER

Membership No:102240909

Apr. 2018 - PRESENT

Achievements, Awards and Certificates

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

PRESENTED ON INTRODUCTION AND ADVANCEMENTS IN 3D PRINTING

- Awarded First Prize

KAKINADA

Apr. 2015

SRINIVASA TECH FEST 2K15

PRESENTED ON PORTABLE RESISTANCE SPOT WELDER

AMALAPURAM

Mar. 2015

VSM LINUX 2K12

PRESENTED ON INTRODUCTION TO ROBOTICS

RAMACHANDRAPURAM

Dec. 2012

Projects

FAB DATA GLASS

MAKER

- 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.

FAB ACADEMY

Jun. 2017

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 a 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 increase in 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.