ADERSH B

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OBJECTIVE

A spring board for my visions and an opportunity to spearhead new frontiers of technology.

ABOUT

I see myself as an Engineer unrestricted by trade, driven by passion for technology and a hunger to prove my worth, seeking to funnel all my intuitive skills and interdisciplinary knowledge acquired over the years into the world of coding as I foresee a world where anything to everything is tied onto a computer. I believe I am already on that bandwagon and all I need now is a proper track.

EDUCATION

COURSE	INSTITUTION	BOARD	%/GPA	YEAR OF PASSING
B.Tech MECHANICAL	Mohandas College of Engineering and Technology	KTU	7.61	2015 - 2019
XII (Computer science)	Kendriya vidyalaya Pangode.	CBSE	67.4	2014 -2015
X	Kendriya vidyalaya Pangode.	CBSE	90	2011-2012

EXPERIENCE

- Software Developer

  Skyslit Pvt Limited. Trivandrum.

  Jul 2019 – May 2020.

- INTERN : Digital Electronics

  Tachlog Pvt Limited. Trivandrum.

  Jun 2018 - Jul 2018.

- INTERN : OSHW and FOSS

  ICFOSS Govt. Kerala (International Centre for Free and Open Source software),

  Learned the fundamentals of FOSS related aspects and created a project based on those platforms.

  Jun 2016 - Jul 2016

PROFICIENT PROGRAMMING SKILLS

C, C++, Python, JavaScript (React JS, React Native, Angular 2.0, Electron JS, Brain JS, Express.JS), jQuery, CSS, SASS, HTML5, SQL.

SKILLS

Internet of Things (IoT)	🟨	OpenSource Hardware	🟥	Front End Development.	🟥
Rapid Prototyping	🟥	3D Printing	🟥	Neural Net	🟩
Robotics / Drones	🟥	Automation	🟨	React JS	🟥
Linux/FOSS Tools	🟨	Git	🟥	Ethical Hacking	🟩
Machine Learning	🟩	Graphics designing	🟥	Analog And Digital Circuits	🟨

*🟩Beginner 🟨Intermediate 🟥Advance

PRIOR EXPERIENCE. : C, C++, MySQL, Python, ReactJS, React Native (Android, IOS), NodeJS, JavaScript, Express.JS, HTML5, CSS, Bootstrap, SASS, Gulp, WebPack, Git, CLI, ElectronJS, TDD using Cypress, Redux, AWS, Axios, Neural Net using Brain JS.

CAD/CAE : AutoCAD, NX, FreeCAD, OpenSCAD, HyperWorks, Ansys, 3D Builder, Blender, Fusion 360.

GRAPHICS : Photoshop, Lightroom, GIMP, Inkscape, Paint 3D, Illustrator, SketchBook, illustrator, Adobe XD.

TOOLS : Ms Word, Excel, Libre Office, LaTEX, Notepad++, Atom IDE, Dreamweaver, Visual Code Sublime Text 3, Arduino IDE, Postman, Android Studio.

LANGUAGES : English, Hindi, Malayalam, Tamil.

PROFESSIONAL MEMBERSHIPS AND COMMUNITIES

ICFOSS, Singularity University, IEDC, FOSSCELL, FSUG (Free Software User Group), KSUM (Kerala Start Up Mission), IEI (Institute of Engineers), OpenDrone Community, μLearn Community, RCindia, Hackster.io, FABLAB Kerala, B-Hub Learn.

UNDERTAKEN PROJECTS (while at college)

- ILLUMINATI 17 & 18 (College cultural Fest)
- COLLOQUIUM 17 (College Technical Fest)
- ICNumACA 18 (International Conference on Numerical Analysis, Computing and Applications in Science, Engineering and Technology)

PROFESSIONAL PROJECTS (as lead front-end developer)

- Tripbonder.com (An international trip and travel planning portal) https://www.tripbonder.com/
- Tripbonder Native apps https://play.google.com/store/apps/details?id=com.tripbonder.app
- A QR code based event registration app (Developed aiming demands in college fests and events)
- RBstores (A Trivandrum based online grocery delivery service) https://play.google.com/store/apps/details?id=in.rbstores.app

ADDITIONAL PROJECTS AND RESEARCH WORKS

- **VTOL Bi-Tilt Rotor RC Aircraft (2019) (Dissertation Project)**

  Aug 2018 – June 2019

  An unconventional Bi-Tilt rotor drone design which employs only two brushless DC motors to attain all the lift, flight and hover. The control strategy for maneuvering and stability is achieved not only by manipulating the rotational speed of the propellers on each rotor but also with the angled adjustments of the rotors and the control surfaces present on craft's airfoils such as ailerons and elevators

- **Soft-Robot with lateral Undulations and Peristaltic Locomotion using Shape Memory Alloy (2018) (Patent Pending)**

  April 2018 – Sept 2018

  Inspired by the simple yet complex modes of locomotion of Snakes and Earthworms, a soft robot with specific arrangement of Shape Memory Alloy springs is presented which will be capable of closely mimicking the movement techniques used by both these organisms. The main two modes of motions focused here would be the lateral sinusoidal undulating motion as that of a snake and the peristaltic motion of an earthworm.

- **IoT Smart Plug and Energy Monitor (2018)**

  Feb 2017 – May 2018

  A smart electric plug running on local server which provides real time power consumption of the load attached to it and allows the user to control the state of the device.

- **FEA Using Hyperworks (2017)**

  Altair (Thiruvananthapuram), Dec 2017 - Dec 2017

  Based on the training received on various FEA using HyperMech we did a case study on "Designs of Prototypical Brackets".

- **LIVING SPACE web app. (2017)**

  May 2017 - May 2017

  Moving Somewhere New? Want to know the climate of a location with amenities nearby? Use LIVING SPACE APP to find that perfect location.

  Developed during a one day Hackathon conducted as part of NASA space App challenge.

- **PIR Automated Intelligent Zebra Crossing (2017)**

  Apr 2017 - Apr 2017

  Automating traffic road crossing signal, will turn red only when there is some presence of pedestrians waiting to cross.

- **IR Home Automation with Intelligent Lighting (2016)**

  Oct 2016 - Oct 2016

  With help of this device you can control multiple household appliances with help of an IR remote

OUTREACH AND INITIATIVES

- **ICFOSS (International center for free and open source software)** as a Volunteer/student Ambassador.

- **The Codelab Project** as a Mentor/volunteer.

- **NSSC'16 (National Student Space Challenge)** as Campus Ambassador

- **H20 (Helping Hands org.** Rehabilitation center for children with autism, cerebral palsy and the elderly.) Actively volunteered for the past three years.

- FSUG tvm (Free Software User Group) as member/volunteer.

- AICRA (All India council of Robotics and Automation) as Campus Ambassador.

- Level 6 Google local guide.

ADDITIONAL COURSES

Drupal, Blender, Game Development, FOSS & OSHW, Fusion 360, Deep Learning 101, HyperWorks, Ethical Hacking, Basics of Android, Google Digital Marketing certification, Google Crash Course on Python certification

ELECTIVE COURSES

Operational Research, Cryogenics, Propulsion Engineering, Adv. Metal joining tech, Adv. Metal Casting

HOBBIES

Tinkering, Hardware Hacking, Gaming.

PROFILES

Linkedin   : https://www.linkedin.com/in/adershb/

GitHub   : https://github.com/adershb007

Others   : https://www.hackster.io/adershb007

https://global.su.org/profile/adersh-b