



# AMAN LADIA

BLOCKCHAIN | PRODUCT DEV | AI | PUBLIC SPEAKING | MENTORSHIP  
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## BLOCKCHAIN ENTREPRENEURSHIP & INDUSTRY EXPERIENCE (2016 ONWARD)



### CO-FOUNDER & CEO, LIQUID PROTOCOL ([liquidprotocol.io](http://liquidprotocol.io)):

- Liquid: an instant liquidity platform that allows users to exchange 1000+ cryptocurrencies for fiat money (dollars) in under 20 seconds.
- Co-founded with five entrepreneurs from Dubai & Canada to interlink fiat & crypto economies.
- Selected in **top 15 startups of 500 global entries in The Blockchain Competition, Zug 2018** (Acceptance email: <http://bit.ly/LiquidLetter>).
- Awarded 'Future Legend' title by MAD Talks (Middle East TED Equivalent): [bit.ly/2kSnR](http://bit.ly/2kSnR)
- Minimum Viable Product (MVP) rollout: early 2020. Public whitepaper available.



### FINTECH ADVISOR, THE PARTNERSHIPS CONSULTING DUBAI ([thepartnerships.com/team](http://thepartnerships.com/team)):

- The Partnerships: strategic consulting company providing consultancy services to clients in fields ranging from finance & real estate to technology.
- On board of experts as a FinTech advisor since March 2018.
- Work directly with MD, Mr. Tanvir Shah (a Harvard Instructor). Advise clients on how tech like Blockchain and AI can be integrated into their workflow in unique and sustainable ways.



### LEAD TECHNICAL CONSULTANT, BLOCKCHAIN FORTRESS ([blockchainfortress.com/about](http://blockchainfortress.com/about)):

- Backend developer on Jaxx Wallet ([jaxx.io](http://jaxx.io)): August to December 2017
- Technical consultant where I developed eight proof-of-concepts: January 2018 – 2019.
- Pitched PoCs to SMEs clients, many of whom then issued contracts to Blockchain Fortress.



### FREELANCE WRITER FOR MULTIPLE CRYPTOCURRENCY BLOGS:

- Frequent columnist on several famous cryptocurrency websites: Crypto-news ([crypto-news.net/author/amsee/](http://crypto-news.net/author/amsee/)) and Bitcoinist ([bitcoinist.com/author/amanladia/](http://bitcoinist.com/author/amanladia/)).
- Topics: upcoming blockchain tech and nifty tips that I have discovered as a crypto enthusiast.
- Strong community following: 25,000+ monthly hits on articles.



### BLOCKCHAIN & AI EXPERT, SPEAKIN ([speakin.co/edit/author/aman\\_ladia/](http://speakin.co/edit/author/aman_ladia/)):

- SpeakIn: Asia's prestigious public-speaking society, with members of the likes of Shashi Tharoor (renowned diplomat) & Ritesh Aggarwal (Founder, Oyo Rooms).
- I am SpeakIn's youngest member since June 2018 and their expert of Blockchain & AI.
- Frequently invited to conferences and Govt. events through SpeakIn.



### AMBASSADOR, BRIDGE PROTOCOL ([bridgeprotocol.io/](http://bridgeprotocol.io/)):

- Bridge Protocol: NEO based startup to put biometric verification on the blockchain.
- Advisor of the core team, and an appointed ambassador of startup since April 2018.

## RESEARCH WORK (OPEN RESEARCHER ORCID : [ORCID.ORG/0000-0002-3879-4171](https://orcid.org/0000-0002-3879-4171))

**Privacy Centric Collaborative Machine Learning Model Training via Blockchain** (Peer-reviewed & published in Springer Journal 'Advances in Intelligent Systems and Computing' – [doi.org/10.1007/978-3-030-23813-1\\_8](https://doi.org/10.1007/978-3-030-23813-1_8)): This paper tackles the problem of 'data siloing', where ML growth is stalled as organizations are unable to share training data due to privacy regulations. It presents a novel protocol to solve this problem. Paper presented at IEEE Cybernetics Conference at University of Salamanca (Spain): [youtu.be/0kFsFuzq73A](https://youtu.be/0kFsFuzq73A).

**Blockchain: A Privacy Centered Standard for Corporate Compliance** (Peer-reviewed & under publication in Institute of Electrical and Electronics Engineers (IEEE) Journal 'IT Professional' – Manuscript at [bit.ly/PrivacyIEEE](http://bit.ly/PrivacyIEEE)): This paper presents blockchain as a potential technology that can allow for privacy and transparency to co-exist in the context of data access for corporate compliance (e.g. KYC/AML).



**Mechanical Ramp Attachment for Wheelchairs to Climb Footpaths And Elevated Surfaces** (Peer-reviewed & published in International Journal of Mechanical Engineering and Technology (IJMET) – [bit.ly/2WPCRqs](http://bit.ly/2WPCRqs)): Paper presents an affordable yet robust mechanism that allows a wheelchair user to independently climb footpaths & single steps with minimal or no assistance. Prototype under fabrication; rollout: late 2019.

**ZeroWallet: Zero Knowledge Proofs Based Protocol to Secure Private Keys with Low-entropy Passwords** (Open-source protocol & functional public-demo developed with Dr Andrew Miller, UIUC – [zerowallet.me](http://zerowallet.me)): Worked under Dr Andrew Miller's supervision at UIUC for 6-weeks to develop a protocol that allows brute-force resistant password-derived private-keys ([bit.ly/illinoisCSL](http://bit.ly/illinoisCSL)). Nominated for ZCash Foundation Grant.

**Brains and Chains: Converging AI and Blockchain to Solve Meaningful Problems** (Internal whitepaper for National Bank of Dubai (Emirates NBD) developed with 4 researchers from ENBD' Future Lab – [bit.ly/ENBDletter](http://bit.ly/ENBDletter)): Worked for 6-months with 4 Blockchain & AI researchers at Emirates NBD to develop a whitepaper exploring two applications of Blockchain & AI working together, with a link to banking applications.

## IoT AND PRODUCT DEVELOPMENT (2014 ONWARDS)

**PROGRAMMING QUALIFICATIONS:** I started writing C/C+ at age 10 & received Aptech certification for it at age 12. I am proficient in Java & JavaScript programming. My language set has grown with my products: I am now a Full Stack web developer, with experience in HTML, CSS, Bootstrap, Node, jQuery and AJAX.

**PIXIE, A HANDS-FREE HOME AUTOMATION DEVICE FOR POWER SAVING** ([git.io/fjN45](http://git.io/fjN45)):

Developed a \$5 device that prevents even 1 second of power from being wasted. 200+ hours rigorous testing; ongoing pilot in 4 condos in my locality. Calculated saving of about 1kW/day – enough to power two CFLs in a slum for 8 hours. Built into my campaign 'Donate a bulb full of light to dark homes' – promotes the idea that power saved is power donated to 30 million households in India who don't receive enough power.

- Selected as youngest exhibitor at Govt. of India IRIS National Fair 2015. Was ineligible for an award as I was underage (13 years old) yet was referred to IIT professors by organizers for further study.
- 50 page research booklet (<http://bit.ly/PixieResearch>), step-by-step construction manual (<http://bit.ly/PixieConstruction>) and demo videos (<http://bit.ly/PixieDemos>) available.
- IIT Tech Expo **Undergraduate National Science Fair** 2018 – Judged as top 3 projects in India.
- Awarded third prize in IIT startup showcase competition among 25 – 30 yr. old developers.
- International Exhibition for Young Inventors (IEYI) – Organized by JII institute of Japan. Competed against 200 participants from 50 countries – won silver for India ([amanladia.com/PixieCertificates.pdf](http://amanladia.com/PixieCertificates.pdf)).

**JARS, AN ELECTRONIC SAFETY JACKET FOR CYCLISTS AND MOTORCYCLISTS** ([github.com/amsee01/JARS](https://github.com/amsee01/JARS)):

JARS is a fully functional jacket that contains embedded circuits and sewn in components that prevent bicycle and motorcycle injuries. JARS connects to the mobile phone, and automatically switches on the correct turn indicator before every turn: the lack of which resulted in over 40,000 deaths on Indian roads in 2015. It also allows for safe navigation with google maps and helps monitor speed limits.

- 45 page research (<http://bit.ly/JARSResearch>) and live demo (<https://youtu.be/EHZakgFFisw>) public.
- IT tech Expo 2017 – Youngest school entry among graduate and post graduate students. Beat larger & better funded teams: received 3rd place prize and grant for further improvement.
- With IIT grant, I filed for a pro-bono patent for JARS. Received April 2019: <http://bit.ly/JARSDesign>
- Declared outstanding project by 'The Better India' Community ([amanladia.com/JARSCoverage](http://amanladia.com/JARSCoverage)).

## MENTORSHIP

**FOUNDER OF THE PROTOTYPING CLUB, A SPECIALISED ONE-ON-ONE R&D INCUBATOR FOR YOUNG STUDENTS:**

- Founded the 'Prototyping Club' at school to serve as an incubator for middle-school students to prototype ideas and build products.
- Organized a team of motivated high-school leaders, who work one-on-one with middle-school students to transfer their R&D skills to them. The club meets weekly with frequently organized talks with schoolteachers.
- First batch of prototyping club protégés passed after a one-year long program where they developed their own products e.g. Bagasse Energy from Waste (EfW) setup, blood donor aggregator app for villages.
- All protégés won awards at the school science fair, and two made it to the national exhibition. See their presentations here: [bit.ly/ProtoClub](http://bit.ly/ProtoClub).

## **COURSE ADVISOR & ETHEREUM EXPERT, AMITY UNIVERSITY BLOCKCHAIN EXECUTIVE COURSE ([bit.ly/AmitySME](http://bit.ly/AmitySME)):**

- Appointed as a course advisor to Amity University for their blockchain executive program.
- I take fortnightly web-sessions (<https://youtu.be/LReiu4zQoaE>) with 50 of their students to discuss blockchain architecture and its applications to industry. My inbox is also open to questions, which puts me in a continuous feedback loop.

## **GUEST SPEAKER, UNIVERSITIES & TALENT SEARCH COMPETITIONS:**

- Invited by the entrepreneurship cell of Vellore Institute of Technology (one of top 3 private tech universities in India) to address 500 aspiring engineers on my entrepreneurship journey. Speech: [youtu.be/8Aa6myldhVs](https://youtu.be/8Aa6myldhVs).
- Spoken to an audience of 500+ parents and high school students at an event organized for the Homi Bhabha Young Scientist contest in early 2017. A video of the same can be found here: [youtu.be/bU-dv3Nt10](https://youtu.be/bU-dv3Nt10)

## **BLOCKCHAIN THOUGHT LEADERSHIP & PUBLIC SPEAKING**

**INDUSTRY FORUMS:** Seeking to spread awareness of Blockchain's transparency, immutability and privacy guarantees, since June 2018 I have spoken at 15 Intl. conferences/forums attended by over 20,000 govt. officials & C-level executives. All my talks are available on YouTube and have over 40,000 views in total. I have worked to take my ideas forward with the people I meet at conferences: for instance, I developed a white paper with Govt. of Jharkhand (state the size of California) on how blockchains can work with agriculture and subsidies.

- Council CISO Summit Mumbai: Blockchain, A Privacy Centered Standard for Corporate Compliance. Addressed 400+ Fortune 500 CEOs, CTOs and CISOs on blockchain based mechanisms for corporates to comply with privacy regulations. <https://youtu.be/4vIRei8dS80>
- Govt. of Dubai 'Smart City' Future Blockchain Summit: Invited to speak at Dubai World Trade Centre in front of 14,000 investors, developers & executives at the event. Focused on Blockchain working with ML for improvements in healthcare, education and law-enforcement. <https://youtu.be/pgVWQKffDckEC->
- Govt. of India Digital Transformation Summit, Delhi: Addressed senior legislators and government think tank members on the use cases of blockchain working with traditional technologies for transparency & accountability in governance. <https://youtu.be/Nq48j13V-Kk>
- Interview by MAD Talks (Middle East TED Equivalent): <https://youtu.be/SPRolao7krU>
- IEEE Conf. at Univ. of Salamanca, Spain: Presented my paper on Privacy Centric Collaborative Machine Learning Model Training via Blockchain to 50 academics: <http://youtu.be/0kFsFuzq73A>
- Co-ordinated Science Lab (CSL), UIUC: Presented ZeroWallet to professors: [youtu.be/fKJ25SgnaVs](https://youtu.be/fKJ25SgnaVs)
- Amity University Webinar: Invited by Amity University Mumbai to hold a webinar with exec. education students on how to analyze industries and architect blockchain solutions. <https://youtu.be/LReiu4zQoaE>
- 'Adding External Data Sources to DApps using Oracles' – 1.21 GigaWatts Blockchain Week Bangalore – 200 developers and industrialists. <https://youtu.be/eFbJcVCu3rQ>
- 'Future of Automobile Dealership' panel – Vyapar Gujarat Conference, Federation of Automobile Dealers Associations (FADA) – [https://youtu.be/nWOOEEn\\_8mGk](https://youtu.be/nWOOEEn_8mGk)
- 'Illuminating The True Extent And Value Of Blockchain Technology with Aman Ladia' – Future Tech Podcast by Richard Jacobs – <https://t.co/7tWnyHIY18?amp=1>
- 'The Value of High-school Research & Development' – Acceptance speech for 'Homi Bhabha Young Scientist' honor – <https://youtu.be/bU-dv3Nt10>
- 'Blockchain, Bitcoin and Cybersecurity' – Talk delivered in front at Paladion Networks (\$200Mn Cybersecurity Giant) – <https://bit.ly/2YaSfhD>
- 'Blockchain and Supply Chain' – Interview by Akshay Ramesh, post-grad student at Grenoble Ecole, France – <https://youtu.be/DFuSwTX31Gs>
- 'Pixie – \$5 electronic power saving device' – Pitch delivered at DAIS Techathon 2018, awarded 1<sup>st</sup> place – <https://youtu.be/bUOIKg26tN8>

**MODEL UNITED NATIONS:** Have won accolades at over 12 Model United Nation International Conferences in last 4 years. Served as the chairperson for multiple committees as well.



# ENVIRONMENT & PEOPLE: MY CAMPAIGNS (2013 ONWARD: [BIT.LY/ENV\\_PEOPLE](http://bit.ly/ENV_PEOPLE))

## MISSION REHABILITATION OF BIODIVERSITY, AN ACTION CAMPAIGN TO RESTORE URBAN AVIAN ECOSYSTEM:

- Mumbai's small native birds (sparrows, mynahs) are declining rapidly. Spent 2 years (2016 onward) compiling 200-page ecological survey, gathering support for a successful government petition and building a powerful symbol of hope for Mumbai's native birds. Full report: <http://amanladia.com/biodome>
- I prototyped a 'Biodiversity Dome' – a protected breeding spot for small birds. Placed in locality and led to construction of several nests. Bio-Domes nominated for inclusion in the Mumbai Redevelopment Plan 2034.
- Awarded 'Homi Bhabha Young Scientist' title by Science Teachers Assn. ([amanladia.com/HomiCert.pdf](http://amanladia.com/HomiCert.pdf)).

## WRAP GIFTS WITH LOVE, NOT WRAPPING SHEETS, A CAMPAIGN FOCUSING ON UNNOTICED GIFT-WRAP WASTE

Since 6<sup>th</sup> grade, I have been working on my campaign that aims to raise awareness about the unaccounted eco-impact of paper used to wrap gifts. 400+ surveys, school awareness drive, 50+ innovative ideas suggested by respondents to tackle this problem are visible on our website: [nowrappingsheets.weebly.com](http://nowrappingsheets.weebly.com).

## GIFT A SMILE, A VOLUNTEER DRIVEN CAMPAIGN TO TACKLE THE MENTAL HEALTH CRISIS OF STREET CHILDREN

- Started with 4 school friends in 2017, Gift a Smile now has 25 active volunteers, making it a pan-India movement ([giftsmiles.co.in](http://giftsmiles.co.in)).
- Campaign focuses on the mental health of homeless street children. We organize games, puzzles (sourced via our mobile app) and other stimulating activities that keep their minds active and sharp.
- As part of this campaign, I also lead a group of 10 classmates at the Muktangan School for Underprivileged children, where we have taken weekly 3-hour teaching lessons.
- In the annual school Fete, we sourced merchandise and ran game stalls, raising approx. USD 5000 in total.

## INTERNATIONAL COASTAL CLEANUP, A MOVEMENT TO RESTORE COASTAL ECOSYSTEMS

My school's leader: every Saturday for the last 1 year, 30 volunteers rally to collect litter on Mumbai's coast.

## SILVER MEDALIST, DUKE OF EDINBURGH'S AWARD (IAYP): [blog.iayp.in/2019/02/](http://blog.iayp.in/2019/02/)

## KEY ACADEMIC HIGHLIGHTS

### JUNIOR & MIDDLE SCHOOL: Bombay Scottish School, Mumbai – BATCH TOPPER

- Stood first in my class in all 7 years of schooling – all round excellence
- Won 35 national and international awards in Maths, Science and Computers among 500,000 students
- Only student in history of SOF International Olympiads to win International Rank 1 in both Science as well as Computing Olympiad in the same year: <http://amanladia.com/Awards>
- Honored by Univ. of New South Wales 4 years in a row for topping the world in their IAIS exams
- All Indian Mathematics Teacher Association conferred me with 'Maths Genius Gold Shield' (1st National Rank in National Mathematics Olympiad) in Class 7

### HIGH SCHOOL: Dhirubhai Ambani International School, Mumbai – BATCH TOPPER

- Academic Excellence, Honor Roll and All Subject Awards all 4 years
- Winner of 'Hindustan time Scholarship 2015-2016' among 50,000 participants for all-round excellence (<http://bit.ly/20EAC3I>).
- Winner of National 'Homi Bhabha Young Scientist' contest twice – aced rigorous 3 stage written, practical and research-project contest.
- Winner of 'National Maths Genius' trophy awarded by National Genius Search Foundation after cracking a two-stage all India competition.
- Cayley Honors Roll & National Informatics Olympiad Finalist Grade 9

### IGCSE Grade X results – BATCH TOPPER with 11 A\*

Add. Maths (Calculus) IGCSE World Topper (1<sup>st</sup> / 800,000+ test takers)  
Physics IGCSE World Topper (1<sup>st</sup> / 800,000+ test takers)  
Biology IGCSE World Topper (1<sup>st</sup> / 800,000+ test takers)  
Geography IGCSE India Topper (1<sup>st</sup> / 70,000 Indians)  
Chemistry, Hindi, Global Perspectives, Comp. Science -School Topper

### Grade XI – 42/42 IB Score

Physics HL	7	English SL	7
Chem HL	7	Hindi SL	7
Maths HL	7	Geog. SL	7

### Advanced Placement (AP) Exams

Computer Science	5/5
EVS	4/5
Microeconomics	5/5

### Standardized Testing

36/36	ACT
1590/1600	New SAT
800/800	SAT Phy, Chem, Math II
760/800	SAT Biology Molecular

