Dragan Boscovic, Ph.D.

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PROFILE

Technology Leader with 30+ Years of Experience in Blockchain, IoT, and AI/ML

- Skilled in envisioning, communicating, and leading the development of blockchain, IoT, and AI/ML technologies, products, and services in support of data analytics, cyber informatics, industrial automation, smart city, smart office, eHealth, and mobility applications.
- Strong foundation in distributed computing architectures, reconfigurable software-defined networks, management and control systems based on big data analytics, and ethnographic social science/anthropology for user experience innovation.
- Embraces platforms as essential product development tools, and endorses modular design for scalability, interconnectivity, and reusability objectives. Devises technology platforms in terms of functional services to enable sharing and open innovation.
- Able to enable rapid innovation through a combination of experimentation and scientific rigor in order to acquire both in-depth knowledge and lateral innovation. Approaches agile development and innovation/implementation as inseparable components of a unique cycle and evolves them iteratively.
- Established several high-tech startups and led the early stage incubation of WiMAX, mesh networks, and mobile TV efforts at Motorola in terms of business, technology, and strategic partnership developments. Successfully transitioned these efforts into standalone P&L operations.
- Built, grew, and ran international technology operations in the UK, France, USA, and China. Installed collaboration and open communication as organizational cornerstones. Encouraged a culture of exploration and creativity while maintaining sharp focus on product/business objectives.
- Managed for operational effectiveness, strategic positioning, financial performance, and organizational development. Initiated and ran partnerships with various industry bodies and academic institutions.
- Credited with the Radio Ecology vision endorsed by the International Telecommunication Union. Founder of the Wireless World Research Forum (WWRF). Technical Chair of the transatlantic partnership MESA project (EU-USA). Served on the USA task force on the Next Generation Networks. Member of the EPA STAR review committee.

Creative and innovative thinker with a proven track record of success in the technology industry.

- Passionate about using technology to solve real-world problems and always looking for new ways to push the boundaries of what is possible.
- Team player who is also able to work independently and take ownership of projects.
- Confident that can make a significant contribution to any organization looking to innovate and grow.

Successful entrepreneur with a strong track record of innovation

- **Founder and CEO of VizLore LLC**, - involved in the strategic direction and oversight the company.
- **Founder of Vizlore Lab Foundation** – non-for profit organization that promotes technical education and entrepreunership.
- **Founder and VP of La Citadelle Art NFP** - non-profit organization that promotes art and culture.
- **Advisory board of JennyCo Medical** - advise to a company that is managing health digital assets.
- **Advisory Borad of Constellation Networks** –advise to company that is creating hypergraph blockchain
- **Distinguished Visiting Scholar at mediaX Stanford University** - a visiting scholar at a prestigious university with a focus on media and technology.

SELECTED ACCOMPLISHMENTS

- As Research Director of Az Blockchain Applied Research Center, I initiated a membership-based research center in partnership with PEI. The goal of the center is to develop new innovations in the use of blockchain to demonstrate to community leaders and Arizona policy makers the value proposition of an industry-led intentional investment strategy for expanded public funding for higher education. I believe that an industry-led center will ensure that everything from focus, capital equipment, and assembled research teams serve a needed purpose in industry and create a unique value proposition.
- As CEO of VizLore LLC, I created a product portfolio of devices and services based on AI/ML, blockchain and IoT platforms that are home-brewed. This concept covers both edge and cloud platforms, and it handles data in motion (streams) and data

at rest (data lakes). The platform also uses other contextual wireless data to provide predictive user behavior mapped on specific location or event. Smart Building and Smart Transportation services have been deployed in Chicago, IL, Madison, WI, Atlanta, GA, and Smart City services have been deployed in Valencia, Spain.

- As Head of Applied Technology Development group unit at MMI/Google, I pioneered the development of a media analysis platform to extract silent video, audio, and text features out of the played media in order to supplement the available metadata. I combined this with data analytics tools to design a distributed wireless CDN platform and implement context informed control of adaptive video streaming to wireless devices such as smartphones and tablets.

- As a member of the Chief Architect office at Motorola Inc, I led the development of Edge CONvergence Server (ECONS) and deployed HomeGW and ECONS Network Overlay in a global testbed with nodes in Schaumburg, Paris, Krakow, Boston, San Diego, and Beijing. Use cases as related to video calls, media sharing, video streaming, and voice session were presented to FMCA in ETSI and ported ECONS firmware onto a productized Home Media Server. I also integrated a 3G femtocell based access with ECONS HGW in cooperation with Ubiqusys Ltd and Motorola Engineering unit in Poland.

- I led the development of OMA-DM capabilities for NBBS product by creating a virtual team between Motorola CTO, Software Group, and newly acquired Netopia Inc business unit. OMA-DM stack was added to the NBBS platform as part of the architectural exercise to enhance degree of commonality between our wireless infrastructure and home platforms.

- I headed Motorola Corporate incubation effort in respect of the Next Generation Networks. I initiated and oversaw efforts relative to the development of technology enablers, IP portfolio, and standardization strategy relative to WiMAX. I assisted the transfer of people, technologies, and knowhow from the Labs into a newly established business group. This experience was extended to transferring MobileTV and Mesh Networks technologies and initial product offerings into appropriate business units.

- I spearheaded Motorola Inc effort in ITU to define adequate regulatory environment for digital cellular radio. I established statistical methodology which was endorsed by ITU-R and saved hundreds of millions of dollars to the entire industry. I received one in life Motorola Corporate Standards Award for this achievement.

- I solved a difficult problem of coexistence for devices that make use of linear digital modulation. My patented solution is in the heart of digital Public Safety standard and earned Motorola millions of dollars in royalty revenues. I received Motorola Business Patent of the Year in 2005 for this contribution.

I am proud of my accomplishments in the field of technology and innovation. I have a proven track record of success in leading and managing teams, developing new products and services, and solving complex technical challenges. I am confident that I can make a significant contribution to any organization that is looking to innovate and grow.

PROFESSIONAL EXPERIENCE

Arizona State University,
School of Computing and Augmented Intelligence at Fulton School of Engineering, Tempe, Arizona   **2016 – ....**

Research Professor
- Conducting research, teaching, providing service to the department, university and community and fundraising for the research initiatives.
- Master Thesis Students: 8
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Research Director, AZ Blockchain Applied Research Center

- Managing Overseeing the research agenda and budget, Recruiting and managing researchers, Collaborating with industry partners: , Disseminating research findings and Building and maintaining relationships with stakeholders: As the research director I play a vital role in the success of a Blockchain Applied Research Center. Beside a strong understanding of blockchain technology, I exercise the skills and experience necessary to lead and manage a research team.

Technical Director of CASCADE (Center for Assured and Scalable Data Engineering)
- Managing Director of Center for Assured and Scalable Data Engineering, which serves as a CoE to other ASU Schools and external industrial and governmental partners. Initiating, overseeing and personally participating in fundamental data engineering research programs that reads on highly dimensional and multimodal data, real-time data, parallel and distributed data and data security and data privacy. In the capacity of the Center Technical Director, I am also actively engaged in

translating ML and AI research results into technology transfer opportunities and directing PoC (Proof of Concept) projects with partners from data centers, energy, water, healthcare, security and financial sectors.

- Coordinated design and delivery process for an on-line M-Eng degree program on Smart Computing (includes learning units covering domains of IoT, Cyber Security and Big Data). Available from Fall 2017.

VizLore LLC, Chicago, Illinois; San Francisco, CA and Scottsdale AZ   **2013 – …….**

*Founder***, CEO and Director of Engineering and Innovation**

- Architected and overseen development of an agile IoT platform, which combines connectivity and data analytics frameworks to connect, monitor and manage heterogeneous devices with objective to optimize business processes. The platform comprises cloud and edge computing segments and utilizes distributed computing to its full potentials. Developed distributed DA by which physical sensors are mapped onto virtual/software sensors for scalability and manageability reasons and each is acting as an independent web service with is proper REST API interface. .
- Architected cloud based management of edge computing topology and connectivity resources with software-defined networking (SDN) controller and OpenFlow enabled switches. Currently building a consortium of four private companies that bring together their Security, wireless SDN, BigData Analytics and Interactive Video solutions, competencies and technology enablers to jointly address new business opportunities as related to Smart Cities, Smart Energy/Grid and Smart Health applications and services.

MMI GOOGLE, Libertyville, Illinois   **2011 – 2013**

*Fellow/VP***, Head of Applied Technology Group**
- <u>Connectivity Session Analytics</u>: Work example includes analysis of data collected at various points within or around smartphone to provide additional insight into product quality, customer satisfaction and consequently guide decisions on supply chain and marketing fronts. Created multidisciplinary organization with expertise in: a) machine learning, b) natural language processing, c) predictive and statistical analytics. Many different applications can be made by combining the mentioned techniques: device stability, battery & modem performance vs. device configuration/options and applications installed/downloaded. Can be further filtered on basis of HW and/or SW versions, activation dates, returned vs. kept devices, etc.
- <u>Media Analysis Platform and Geo-fenced media delivery</u>: Formed group focusing on media analytics (both on the device and in cloud), using image processing techniques, audio processing and text extraction/OCR processing. Between these three processing streams we can classify videos and photos in terms of people, places, times, etc., even though GPS or time information is unavailable or inaccurate. Deployed on backend side these techniques help increase efficiency of video/audio coding or to control adaptive streaming over wireless.
- <u>Wireless Software Defined Networks</u>: Dynamic reconfiguration of routing tables on meshed wireless devices to collectively answer to significant temporal and spatial variations in terms of quantity and quality of required services. Network topology change is done via controlled switching between single and multi-path routing schemas. Management/Control algorithm determines participating nodes and initiates, oversees and terminates virtualization of processing, networking and storage resources across nodes. Triggers for reconfiguration are determined via contextual analysis (machine learning and statistical analysis applied to large data base containing information on devices (screen size, OS, application, modem speed), WiFi nodes (load profiles, connectivity history, interference etc.) and situation (time of day, user activity as observed on YouTube, FB, etc.).
- <u>Open Innovation</u>: Manage University Research budget and relations (MIT, University of Chicago, Northwestern, Stanford, Fraunhofer).

MOTOROLA CORPORATION, Schaumburg, Illinois   **2004 – 2010**

Senior Director, Wireless Systems and Networks; Head of Wireless Networking Research Organizations in Paris, Schaumburg, Boston, & Beijing, 2006 – 2010
- Joined Chief Technology Architect office and assisted in recruiting and building the team. Assumed role of coordinating corporate technology and solution architecture in terms of mobility and IP convergence.
- Developed LightIMS strategy which evolved into ECONS HGW and ECONS Network Overlay. Coordinated overall architecture and initiated joint development with Motorola Software Group and Home Business unit. Global testbed deployed in Schaumburg, Paris, Krakow, Boston, San Diego and Beijing. Concept has objective to move service intelligence from core network elements onto the edge network elements in which Motorola business had strong control points. Home Media Gateway which incorporated developed middleware was used as reference at ETSI FMCA summit in 2008. Media GW and RUI CE2014 solutions supporting adaptive streaming to wireless devices were shown at CES 2010.
- Organized and moderated corporate-wide Mobility Summit with more than 150 people in attendance with objective to drive common IP mobility architecture across different engineering units.
- Incorporated early cellular femtocell AP into ECONS HGW and developed control and management overlay in partnership with Ubiqusys and Networks SW Engineering in Poland. OMA-DM management capabilities added to our converged fixed-mobile management platform and organized a related inventing session which produced 10+ patent fillings on the topic of femto and macro cellular convergence.
- Teamed up with Global service Organization to provide link level and system level performance for CMMB system in support of their contractual negotiations with S2M. Defined problem scope and lead team in China to acquire initial proprietary information on the system and use it to complete CMMB simulations, link level (satellite margins) and system level (physical imperfections of PA and SFN path delay characterization).

***Director, Leader of Next Gen Networks Strategic Growth Engine for CTO**, 2004 – 2006*
- Appointed by Motorola Chief Technology Officer to lead Strategic Growth Engine incubation for Motorola Labs. Harvested technologies across 3 lab units (300 people) and worked with Heads/VPs to prioritize resources and projects to drive unified technology development road maps.
- Member of cross-business steering team chaired by CTO that drove marketing and development coordination for WiBB. Ensured Adaptive Antenna and Convolution Coding contributions from Labs into IEEE.802.16 standardization process. Ensured significant investments in building an impressive patent portfolio on WiMAX.
- Assisted Network Business CTO in establishing new business unit (300 people strong) to start WiMAX product development as well as coordinating Labs liaison with silicon designers working on ASIC for WiMAX devices and CPEs. Produced strategic business studies for CTO such as possible impact on Mot strategy from Qualcomm decision to purchase Flarion. Equally was active member of CTO-led team working on corporate wireless strategy reviews with CEO and Corporate Strategy Office.
- Appointed chair of two corporate patent committees, one on Manageability and one on Software Defined HW platforms. Objective was to align innovation with strategic business directions across Motorola Corporation.
- Board member on "start-up like" internal incubation investments into Broadband over Power Lines, Mobile Networking Gateway, IPv6 stack and few others.

MOTOROLA SAS, Paris, France   **1997 – 2003**

GM and Research Director for Motorola Research Center in Paris
- Built R&D operations for Motorola SAS in close cooperation with business operations to align business & research strategies and execute on innovation and technology transfer plans. Led Technical Staff and functional management team (HR, finance, legal, IT, PR) to implement relevant processes and strengthen customer relations by entertaining frequent customer meetings and product introduction workshops. Center had 80 research staff, 50% PhD.
- Devised, validated and executed on longer-term research strategies with main objective to minimize surprise risks from regulatory changes/evolution and equally forge strong links with Academia and other public research institutions. Established research and long-term collaboration alliances and led Motorola Labs into FP5 and FP6 collaborative research in Europe. In 2002, level of external financing reached $11M.
- Oversaw budget planning, determined investment priorities and ensured financial viability. Leveraged on EU opportunities for subsidized collaborative research and ensured cost effective, adequate research facility and space provision.
- Mentored and developed people and skills creating trustful working environment. Designed optimal organizational structure. Actively engaged in communications internally and externally on major research, managerial or organizational aspects and assumed legal responsibility in respect security and safety compliance. Presided over "Comite d'Entreprise" and Health &Safety committee.
- At EU level, one of WWRF founders, an association of major ICT industrial players to guide research, standardization and regulatory policies relative to 4G broadband wireless systems. Appointed to chair technical committee of trans-Atlantic MESA project driving requirements for public safety broadband communication in post 9/11 world.

MOTOROLA Ltd, Basingstoke, United Kingdom   **1991 – 1997**
Manager, European Research Lab

UNIVERSITY of BATH, Bath, United Kingdom   **1988 – 1991**
Research Officer, School of Electric and Electronic Engineering

INSTITUTE of APPLIED PHYSICS, Belgrade, Serbia   **1982 – 1988**
Senior Associate, Microwave and Radar Lab

EDUCATION

University of Bath, United Kingdom
Ph.D. in EE and CS, Numerical Electromagnetic Modeling – 1991

University of Belgrade, Yugoslavia
Magistar in EE, eq. Ph.D., Microwave and Optoelectronics – 1988
Dipl Inz in EE, eq. MSEE, Electronics Systems – 1983

EXTERNAL ACTIVITIES & RECOGNITIONS

PRESENT

- **Appointed Mentor in European Union funded Next Generation Internet programme**
- **Edirorial Board – ACM Journal on distributed Technology: Research and Practice**
- **University of Novi Sad** mentoring a group of PhD students.

PAST

- Innovation Advisor to CIO of **Cambridge Silicon Radio**, San Jose, CA
- Advisory board to **Altira VC** and **Southwest Wind Power Inc** on technology roadmaps and smart grid technology enablers.
- Founder, Board member-**Wireless World Research Forum**, NFP organization started by Alcatel, Ericsson, Nokia, Motorola and Siemens (2001-2005).
- Served on President G.W. Bush **Task Force on the Next Generation Networks** (2004-2006)
- Chair, Technical Committee-**trans-Atlantic project MESA** (EU-USA) developing broadband communication specifications for public safety and first responders' applications. (2002-2005)
- Advisory board to **ArrowSpan Inc** manufacturer of advanced Mesh network infrastructure based on WiFi technology and supporting "zero-handoff" for mobile services (2007-2010)

HONORS & AWARDS

Knighthood -Order of Kardjordje Star , Serbia 2023

Motorola PMR Business Patent of the Year, 2005

Motorola Scientific Advisory Board – 2001; Heterogeneous Networks

Corporate Standards Award – 1999; for setting new radio regulatory evaluation norms in ITU-R

IEEE Senior Member, 1997

UK Chartered Engineer, 1996

Motorola EU patent of the Year, 1995

ADDENDUM I: SCIENTIFIC DISSEMINATION

External Publications for the past 36 months

1. La Salle, A., Kumar, A., Jevtić, P., & Boscovic, D. (2023). **Joint Modeling of Hyperledger Fabric and Sybil attack: Petri Net approach.** *Simulation Modelling Practice and Theory*, *122*, 102674.

2. Hasan, H. R., Madine, M., Yaqoob, I., Salah, K., Jayaraman, R., & Boscovic, D. (2023). **Using NFTs for ownership management of digital twins and for proof of delivery of their physical assets**. *Future Generation Computer Systems*, *146*, 1–17.

3. Swathi, P., & Boscovic, D. (2022). *A Survey on Quantum-safe Blockchain System*. *ACSAC 2022, WEB3SEC – Workshop Encouraging Building Better Blockchain Security*

4. Tandon, A., Kumar, A., & Boscovic, D. (2022). **Device identity management on Hyperledger Fabric**. *ACSAC 2022, WEB3SEC – Workshop Encouraging Building Better Blockchain Security*.

5. Hristovski, K. D., Burge, S. R., Boscovic, D., Burge, R. G., & Babanovska-Milenkovska, F. (2022**). Real-time monitoring of kefir-facilitated milk fermentation using microbial potentiometric sensors**. *Journal of Environmental Chemical Engineering*, *10*(3), 107491.

6. Boscovic, D. (2021). **How nonfungible tokens work and where they get their value–a cryptocurrency expert explains NFTs**. *The Conversation: Https://Theconversation. Com/How-Nonfungible-Tokens-Work-and-Where-Theyget-Their-Value-a-Cryptocurrency-Expert-Explains-Nfts-157489 Erişim Tarihi*, *7*, 2021.

7. Saboe, D., Ghasemi, H., Gao, M. M., Samardzic, M., Hristovski, K. D., Boscovic, D., Burge, S. R., Burge, R. G., & Hoffman, D. A. (2021). **Real-time monitoring and prediction of water quality parameters and algae concentrations using microbial potentiometric sensor signals and machine learning tools**. *Science of the Total Environment*, *764*, 142876.

8. Hasan, H. R., Salah, K., Jayaraman, R., Omar, M., Yaqoob, I., Pesic, S., Taylor, T., & Boscovic, D. (2020). **A blockchain-based approach for the creation of digital twins**. *IEEE Access*, *8*, 34113–34126.

9. Pešić, S., Radovanović, M., Ivanović, M., Badica, C., Tošić, M., Iković, O., & Bošković, D. (2020). **CAAVI-RICS model for analyzing the security of fog computing systems**. *Intelligent Distributed Computing XIII*, 23–34.

10. Pešić, S., Radovanović, M., Ivanović, M., Tošić, M., Iković, O., & Bošković, D. (2020). **Graph-based metadata modeling in indoor positioning systems**. *Simulation Modelling Practice and Theory*, *105*, 102140.

11. Stampoulis, D., Damavandi, H., Boscovic, D., & Sabo, J. (2020). **Using satellite remote sensing and machine learning techniques towards precipitation prediction and vegetation classification**. *Journal of Environment Informatics*, 1–45.

12. Pešić, S., Radovanović, M., Ivanović, M., Tošić, M., Iković, O., & Bošković, D. (2019**). Hyperledger fabric blockchain as a service for the IoT: proof of concept**. *Model and Data Engineering: 9th International Conference, MEDI 2019, Toulouse, France, October 28–31, 2019, Proceedings 9*, 172–183.

ADDENDUM II: GRANTED PATENTS

Note: Only the first grant within a given distinctive family is referenced here.

1. GB2366398 AGENTS
2. EP1435600 METHOD AND APPARATUS FOR DETERMINING THE LOCATION OF A WIRELESS DEVICE
3. GB2313251 MULTIMEDIA COMMUNICATIONS CONFERENCING SYSTEM AND METHOD OF EXCHANGING PRIVATE COMMUNICATION
4. GB2313250 METHOD OF MANAGING SYSTEM RESOURCES IN A MULTIMEDIA CONFERENCING NETWORK
5. US5748038 METHOD FOR AMPLIFIER TRAINING IN A LINEAR POWER AMPLIFIER
6. US 6031831 METHOD FOR REVERSE CHANNEL SOUNDING IN A COMMUNICATIONS SYSTEM
7. EP1014740 REDUCTION OF CO-CHANNEL INTERFERENCE IN CELLULAR COMMUNICATIONS SYSTEMS
8. US6704572 TIME SHARING OF COMMUNICATIONS RESOURCES IN CELLULAR COMMUNICATIONS SYSTEMS
9. GB2368496 TELECOMMUNICATIONS SYSTEMS
10. GB2323987 POWER AMPLIFIER FOR RADIO TRANSMITTER AND DUAL MODE REMOTE RADIO
11. GB2286305 DUAL MODE REMOTE RADIO
12. GB2295295 METHOD OF REDUCING INTERFERENCE IN A COMMUNICATION SYSTEM
13. EP1313267 METHOD FOR OPTIMISING PATH SELECTION IN PACKET SWITCHED NETWORKS
14. EP1077582 METHOD TO REDUCE INTERFERENCE BETWEEN MOBILES USING DIFFERENT DUPLEX TECHNOLOGY
15. NI200816 MULTICAST IN A COMPOSITE RADIO ENVIRONMENT
16. US6490452 GROUP HANDOVER IN A CELLULAR COMMUNICATIONS NETWORK
17. US5559807 POWER AMPLIFIER LINEARIZATION IN A TDMA MOBILE RADIO SYSTEM
18. US7743121 METHODS AND APARATUS FOR SETTING UP AND MANAGING OPERATIONAL ENVIRONMENT IN P2P WIRELESS NETWORKS
19. US11343491 METHOD AND APARATUS FOR HANDOFF CONTROL IN MOBILE COMMUNICATION SYSTEMS
20. US8107956 PROVIDING OVER-THE-TOP SERVICES ON FEMTO CELLS OF AN IP EDGE CONVERGENCE SERVER SYSTEM
21. US8121600 WIDE AREA MOBILE COMMUNICATIONS OVER FEMTO-CELLS
22. US8935305 SEQUENTIAL SEMANTIC REPRESENTATIONS FOR MEDIA CURATION
23. US9754096 UPDATE MANAGEMENT

PhD thesis Committees:
- Behrens, H.W. (2023). *On Counter-Adversarial Resilience in Permeable Networked Systems* [Phdthesis]. Arizona State University
- La Salle, A. (2023). *On Stochastic Modeling Applications to Cybersecurity: Loss, Attack, and Detection* [Phdthesis]. Arizona State University.
- Meduri, V. V. (2022). *Human-in-the-Loop Machine Learning Systems for Data Integration and Predictive Analytics* [Phdthesis]. Arizona State University.
- Ramirez, K. (2022). *Blockchain Network Characteristics and User Adoption of Cryptocurrency* [Phdthesis]. Grand Canyon University.
- Saetta, D. (2021). *Advancing the Implementation and Adoption of Urine Diversion Systems in Commercial and Institutional Buildings in the United States: A Focus on Control of Urea Hydrolysis* [Phdthesis]. Arizona State University.
- Saha, S. S. (2021). *Stability and Security of Distribution Networks with High-Penetration Renewables* [Phdthesis]. Arizona State University.

Master Thesis Committees:
- Aggarwal, S. (2022). *SATLAB-an End to End Framework for Labelling Satellite Images*. Arizona State University.
- Bouck, S. J. (2021). *A Verifiable Distributed Voting System Without a Trusted Party*. Arizona State University.
- Chawla, N. (2018). *Digital Fountain for Multi-node Aggregation of Data in Blockchains*. Arizona State University.
- Mhalgi, K. S. (2021). *Medical Devices Digital Threads and their Supply-Chain Management on Blockchain*. Arizona State University.
- Mittal, S. (2022). *A Comparative Analysis of Bitcoin Price Prediction Models*. Arizona State University.
- Romo, M. (2019). *Blockchain: An Assessment of its Potential and Challenges in Addressing Sustainability Issues*.
- Sadaye, R. A. (2019). *Enabling Peer to Peer Energy Trading Marketplace Using Consortium Blockchain Networks*. Arizona State University.
- Siddharth, S. (2020). *Peer to Peer Microlending: A Charitable Donation Management Platform on Blockchain*. Arizona State University.
- Vishnoi, M. (2020). *MedFabric4Me: Blockchain based patient centric electronic health records system* Arizona State University.

Honors Thesis Committees:
- Hoppe, A. (2022). *Novel NFT Minter: With Support From NuCypher*.
- Mendoza, F. (2020). *Mengde Signatures: The First Practical Implementation Of Proxy Digital Signatures.*
- Steinberg, S. (2020). *Predicting Bitcoin Price Trend using Sentiment Analysis*.
- Tran, P. T. (2018). *Future H2O: Front-end Design Experience*.
- Vallabhaneni, S. (2020). *Leveraging Blockchain for Plasma Fractionation Supply Chains*,
- Xu, Y. H. (2020). *Cryptopoly: Using Ethereum State Channels for Decentralized Game Applications*.