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RICKY NGUYEN

SUMMARY

Recent Master's graduate with concentration in computer hardware design, aiming to secure a position to translate engineering education into experience.

- Proficient in software programming, electronic circuitry, and media production.
- Experienced in customer services, including communication and financial management.
- Efficient leader and assistant, able to utilize resources to complete project research and development.

EDUCATION

Illinois Institute of Technology   Chicago, IL   May 2019
Master of Science in Computer Engineering [Major GPA: 3.65]
Coursework: VLSI Systems Design, Computer Architecture, Hardware Software Codesign, Operating System Design, Computer Network Security, Wireless Networking, Digital Systems-on-Chip Design

Illinois Institute of Technology   Chicago, IL   May 2018
Bachelor of Science in Computer Engineering [Major GPA: 3.70 | GPA: 3.71]
Relevant Coursework: Circuit Analysis, Digital Systems, Microcomputers, Signals Systems, VLSI Design, Object Oriented Programming, Data Structures and Algorithms, Systems Programming, Operating Systems, Database Organization

EXPERIENCE

IIT Teacher Assistant | Object-Oriented Programming I & II   Chicago, IL   Jan 2016 – Feb 2019
- Assisted students in introductory computer science programming.
- Lead lab sessions every week, answering questions and concerns.

IIT Organization | UAV Experimentalists   Chicago, IL   Aug 2016 – June 2017
- Constructed a UAV emphasizing minimal costs with robust systems, allowing for future members to easily modify.
- Designed the imaging systems and assisted in cyber security protocols.
- Participated in the 2017 AUVSI SUAS competition at Naval Air Station in Patuxent River, MD.

Interprofessional Project | Li-Ion Battery Fabrication   Chicago, IL   Jan 2017 – May 2017
- Collaborated with other groups to compose batteries capable of fast recharge while maintaining voltage.
- Fabricated nano-$LiCoO_2$ to decrease diffusion distance in electrodes.
- Awarded Dead's Choice Award and Track Award at Spring 2017 IIT IPRO Day.

Interprofessional Project | Big Data Science   Chicago, IL   Aug 2016 – Dec 2016
- Utilized big data and prototyped a solution that acknowledges poor air quality and related concerns.
- Developed a hybrid air filter for consumer use to target indoor air pollution.

Research Assistant | Chicago Coin-Op Archive   Chicago, IL   Aug 2016 – Dec 2016
- Performed research in coin-op industry via interview on company Lucky Strike.
- Information gathered was historically archived for preservation.

Freelance Electronics Repair Technician   New Orleans, LA   Aug 2011 - Aug 2014
- Repaired various mobile devices, video game consoles, and other electronics for local clients.
- Physical repair/replacement of components, artistic modifications, and hardware modifications.

Patrick Taylor Tutor   New Orleans, LA   Aug 2012 – May 2014
- Assisted students in elementary mathematics and sciences, specializing in Calculus and Physics.
- Provided two sessions every week with individualized teaching regimen per student.

Couturie Forest Restoration Project   New Orleans, LA   Dec 2012
- Grew cypress tree saplings in controlled conditions to restore City Park after Hurricane Katrina.
- Used tree protectors to provide future research data regarding preservation effectiveness.

SKILLS

VHDL, Verilog, Assembly (MIPS)	Java & Python	Adobe Dreamweaver
ModelSim, Virtuoso, HSpice	C, C#, & C++	iMovie & Adobe Premiere
Autodesk Inventor	HTML & CSS	Macromedia Flash
Rhinoceros 3D	LaTeX & R	Audacity
Microsoft Office & Google Analytics	Mathematica & MatLab	Paint Tool SAI