Vaibhav Murali

1163 ¹/₂ W 24th street Los Angeles CA 90007

Email: murali.vaibl Phone: +1 917-519		https://www.linkedin.com/in/vaibhavmurali/ https://vaibhavmurali.github.io/Website/	
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OBJECTIVE	rested in applying and developing my knowledge through a full-time role in the field of <i>trumentation</i> and <i>Electrical & Electronics (EE) Engineering</i>		
EDUCATION	University of Southern California (USC) Master of Science (M.S.), Biomedical Engineering (EE Emphasis)	CGPA: 3.60/4.00 May 2019	
TECHNICAL SKILLS	SSN College of Engineering, Anna UniversityBachelor of Science (B.E.), Biomedical EngineeringLanguagesC, C++, Python, Bash ProgrammingSoftwareMATLAB, LABVIEW, LT-Spice, Eagle, Cadence YHardwareOscilloscopes, Signal Generator, Power Supplies, D	CGPA: 8.01/10.0 June 2017 Virtuoso, Ki CAD, OrCAD	
EXPERIENCE	PlatformArduino, Intel 8051, Cadence Allegro, MSP 430, SoElectronics EngineerNOWDx Instrumentation Division (NID)		
	 Develop electrical schematics for medical application accord Design of PCBs (Rigid & Flex, Multilayer PCBs) using Eagl Devise and review the Bill of Materials (BOM) and coordinal fabrication Rework thru hole & SMD components on in-house PCBs Verification and validation of PCBs using Python Debug & troubleshoot electronic circuits using Digital Multin Write Design and Development documents according to FDA Work closely with Quality team in support of Quality Managaccording to ISO 13485 standard Utilize Failure Mode Effect Analysis (FMEA) and Fault Treeproject risk analysis Maintain Risk Management File (RMF) according to ISO 14 Electronics Engineer (Internship) NOWDx Instrumentation Division (NID) Test Assembly PCBs using Python & Bash programming 	le & OrCAD ite with external vendor for PCE meter (DMM) & Oscilloscope A 21CFR820 gement Systems (QMS) e Analysis (FTA) as tools for 971 standard January 2019 – May 2019 Los Angeles, CA	
PROJECTS	 Responsible for technical data collection & reporting issues t Cast Simulator Designed a model arm embedded with temperature and press time feedback to surgeons Worked in collaboration with Children's Hospital Los Angel Design of Artificial Neuron 	sure sensors to provide real- es (CHLA) firing of neurons	
COURSEWORK	 cost effective electronic components Engineered a machine that performs basic operations such as temperature & detecting air bubbles present inside blood draw 	a monitoring pressure, wn from patient d Nanotechnology, Applied nic Imaging, Signals & nd Digital Integrated Circuits,	