

Bijan Binaee

University of Tehran * Electrical Engineering Student

LANGUAGE

Persian
English

EXPERIENCE WITH

Keysight InfiniiVision MSOX6002A
6GHz Mixed Signal Oscilloscope
HP 8510C 45MHz-26.5GHz VNA
R&S 300KHz - 3.3GHz SMIQ

HOBBY PROJECTS

2.4 GHz Balanced Mixer(ADS, Sim Only)
2.2GHz - 7GHz QVCO CMOS 0.18um(ADS, Sim Only)
3Gbps Clock Data Recovery CMOS .18um(ADS, Sim Only)
3Gbps Decision-Feedback Equalizer .18um(ADS, Sim Only)
1.7GHz Miniature Patch Antenna
DC - 40MHz Sine Wave Synthesizer (AD9548)
20KV Low Current FlyBack Driver
Tiny Electromagnetic Gun :)

FAMILIAR WITH

Linear, Switching Regulators
Power Sequencer
LVDS, CMOS, DDR3, RGMII
FPGA HW Design
JTAG, SWD, FMC Card
RF Switches, Couplers,
LNA, Clock Synchronizer
OCXO, TCXO, ...

HW DESIGN

300MHz-6GHz Portable VNA, 12 layer PCB (2018)
Angular Positioning System, APS, 4 layer PCB (2017)
30V - 4A HBridge Motor Driver, 2 layer PCB (2016)
UT Mechatronic Association Drone, 2 layer PCB (2015)

PROTOCOLS

I2C, SPI, I2S, UART
Gigabit Ethernet,
WiFi 2.4
Bluetooth Classic
BLE v4, NRF

Programming

C, C++, CSS3, Matlab,
Python, Verilog, VHDL,
PHP, Bash

RESEARCH INTERESTS

Analog and RFIC Design, Wideband Transceivers
Mixed Signal Design, Active Microwave Circuit
High Speed PCB Design, Signal Integrity, CDR

EDUCATION

2013 2017 **B.Sc.** Electrical Engineering, Telecommunication University of Tehran
Courses: Fields & Waves, Microwave Engineering,
Communication Circuits, EMC, Metamaterials,
Wireless Communications, Serial Links (Audit), RFIC(Audit)

2009 2013 Diploma in Mathematics and Physics Salam High School

WORK EXPERIENCE

2016 2018 **Faraz Ertebat** Hardware Group
Design 300MHz-6GHz Portable Network Analyzer AD9361 + Zynq 7z020
Design Power Delivery Network of Multi-Transceiver Board 3xAD9361 + Zynq 7z035

2015 2016 **RF Lab and Radar Lab** Sharif University of Technology
Design 1.7GHz Secure Telemetry System ADS + LMS6002D

2014 2015 **Nojan Co** Science & Technology Park (Kargar st)
Implement SNMP Agent for Monitoring HostIran Servers libsnmp + autotools

2013 2014 **Advanced Robotic Lab** Machine Learning Department
Dome Robot Communication and HMI Qt + QML +WiFi 2.4G n

2013 2014 **Artificial Intelligence Lab (RAIS)** Machine Learning Department
Designing high precision LVDT using C.V algorithms OpenCV + Qt
Designing network CRC system TCP/IP v4 + QTCPServer

Skills

HW Design **Electronics EDA** +2 Year Experience
ADS, Allegro, OrCAD, HFSS, CST, SystemVue, Spice, Altium

D. Design **Digital Processors** +2 Year Experience
Xilinx Zynq 7000, ARM, AVR, dsPIC, Raspberry Pi

SW. Skill **Softwares & libraries** +2 Year Experience
OpenCV, Qt, VIM, GTK, Vivado, ModelSim, Quartus, Android

SW. Skill **Linux Experience** +6 Year Experience
Arch, Debian, Fedora, Ubuntu

Doc. Skill **WebDesign, Artwork and Documentation** +4 Year Experience
Wordpress, Inkscape, LaTeX



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