Reza Mesgar

http://www.rezamesgar.com
Email: r_mesgar@yahoo.com

EDUCATION

BS In Electronics Engineering
Guilan University
Graduation date: 2012 | Rasht, Iran

IELTS Overall Score: 6.5
L(6), R(7), W(6), S(6.5), BandScore(6.5)

SKILLS

PROGRAMMING

- MATLAB +3500 Lines
- Python +5000 Lines
- JAVA +2000 Lines
- C++ +2500 Lines
- BASCOM +1000 Lines
- Ladder +4000 Networks (PLC Programming)
- Ios +5000 Lines
- Android +1000 Lines

ELECTRICAL ENGINEEERING

- Analyzing Electrical and Electronic Circuits Using SPICE/HSPICE
- Digital Circuit Design
- Power Electronic Design
- Design and Analyze Processes

MODELING

- Autodesk Inventor
- HSPICE/SPICE
- Proteus
- MATLAB

DESIGNING

- Adobe InDesign
- Microsoft Office
- LaTeX

LINKS

Facebook

my personal website

EXPERIENCES

- Designer, Research and Development Member and Engineer at Atie Medical Industries Co. (2018 – now)
- Engineer, Research and development Member of Kousha Metal Industries Co. (2012 - 2018)

PROJECTS(for further details and information please refer to the links provided)

Plasma Sterilizer PS-140 Ver. 3 (2019)

Plasma Sterilizer PS-140 Ver. 2 (2018)

Plasma Sterilizer PS-140 Ver. 1 (2016)

Design of the Whole Device:

- Design of a Rectangular Vacuum Chamber with an Automatic Door
- Design and Implementation of a Hydrogen Peroxide Purifier that Increases Concentration of the Solution Up to 85% Inside the Device.
- Design and Implementation of a Hydrogen Peroxide disposal catalytic converter
- Design of a Delivery System of Hydrogen Peroxide
- Design of the Sterilization Process for the Device
- Design of the Electrical Circuit
- Design and Implementation of a 600W Plasma Generator
- Programming of Graphical User Interface of the device
- Programming of the PLC(because of its simplicity in implementation)

Implementation a Control system by python on raspberry pi Board for controlling a Vaporizer unit for Plasma Sterilizer ver.3 (2017)

Implementation of process of autoclave machines by PLC that manufactured in Kousha Meatal co. in four series of machines. SARAY1, SARAY2, SARAY3 and SARAY4 series.

Implementation of an automation routine for HardFacing machine in Kousha Metal Co.(2016)

Design and implemantation of process of edible oil filling machine by PLC and Loadcells. (2015)

Design and Implementation of a Remote Control with 15 Parallel Channels for Tube Bundle Puller Machine. (2014)

Design and implementation of a Direct Digital Synthesizer for Generating Accurate Sine Waves on FPGAs (2012)

- Using Quartus to program on FPGA system
- Using Modelsim to Simulate output
- This project implemented on the Cyclone 2 DE 1 board