Position 1: REU student in image processing

Job Description:

We are seeking an undergraduate student with strong research experience in image processing algorithm development.

Desired Qualifications:

➢ Major in Computer Science or Computer Engineering/Electrical Engineering
➢ At least 1 year experience designing, writing and testing computer vision algorithms in MATLAB and C
➢ Ability to independently and successfully implement feature extraction and recognition algorithms as demonstrated in the research literature
➢ Experience and background with computer vision and image processing algorithms:
   • Experience in low-level image processing (i.e. noise reduction, edge detection, morphological filtering, etc.)
   • Experience and/or familiarity with leading feature extraction algorithms (SURF, SIFT, Gabor, LBP, etc.)
   • Experience and/or familiarity with standard pattern recognition algorithms (i.e. SVM’s, Neural Networks, etc.)
➢ Good communication skills, both written and verbal
➢ Strong code optimization and debugging skills

Please contact:

Prof. Jeffrey Fan, Ph.D
Department of Electrical and Computer Engineering
Florida International University
Miami, Florida 33174, USA
E-mail: jeffrey.fan@fiu.edu
Homepage: http://web.eng.fiu.edu/fanj/
Position 2: REU student in circuit design

Job Description:

We are seeking an undergraduate student responsible for Gesture Recognition circuit design.

Desired Qualifications:

- Major in Computer Engineering or Electrical Engineering
- Basic knowledge about IC design flow is required and super large scale IC design is preferred.
- Familiar with Verilog HDL design and simulation verification environment.
- Familiar with FPGA Verification, Experience with ISE, Spartern/Virtex is a plus.
- Basic knowledge about SoC design is required.
- Familiar with standard industrial bus protocols, for example, i2c/spi/sdio/uart.
- Basic knowledge about Image Processing and Computer Vision.
- Optimistic and open character, good teamwork spirit

Please contact:

Prof. Jeffrey Fan, Ph.D
Department of Electrical and Computer Engineering
Florida International University
Miami, Florida 33174, USA
E-mail: jeffrey.fan@fiu.edu
Homepage: http://web.eng.fiu.edu/fanj/