

Lab Teaching Assistant

ROBERT SMITH

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Alabama.

Objective

Skillful and adaptive Chemical Engineer with quality research experience, seeking a full time position.

Skills

Microsoft Excel, Microsoft Word.

Work Experience

Lab Teaching Assistant

ABC Corporation - September 2014 - November 2014

- Tutored Calculus I, Circuit, Circuit Analysis, Signals & Systems to undergraduate students.
- Designed experiments to study the effects of meditation on attention, working memory, and emotional stability using 16 electrode EEG data and used real-time neuro-feedback to improve attention.
- Designed and tested the architecture of silicon inner ear based on filter bank and neural circuit in MATLAB.
- Identified the functional form of the channel conductance of a silicon Hodgkin-Huxley neuron using the current clamp technique in MATLAB.
- Reduced the effect of the Potassium and Sodium channel conductance by memconductance injection into the silicon HHN in a dynamic clamp setting.
- Identified in silico a biophysical neuron consisting of a dendritic tree, a soma, and a conductance-based axon hillock.
- Worked on analysis and classification of microscopic images of plants.

Lab Teaching Assistant

Delta Corporation - 2011 - 2014

- General Physics Mechanics and Heat, Electricity and Magnetism, Astronomy.
- Being the TA for Unit Operations Lab has helped me go through all my basic chemical engineering knowledge in a practical way with experiments related .
- This has also given a boost to my mentoring and communication skills.
- Ensured labs were set up and ready for student use and cleaned up properly after lab Worked closely with chemistry department staff in order to .
- Served as a Teaching Assistant for the General Chemistry (CHE 140, CHE 141) courses in the lab sections.
- Teaching astronomy labs Grading papers and proctoring exams Working individually with students.
- Assisted and evaluated students in Pharmaceutical Care Dispensing Lab.

Education

MS in Electrical Engineering - (Columbia University - New York, NY)