Chemical Chloe

chemchlo@usc.edu | Cell: 123-456-7890 | 123 USC Dr. Los Angeles, CA 90089

Resume Example

EDUCATION

University of Southern California, Viterbi School of Engineering | Expected May 2018
Bachelors of Science in Chemical Engineering (Sustainable Energy)
Cumulative GPA: 3.71

WORK EXPERIENCE

ABC Company, *Project Air Monitor & Intern* Buffalo, NY | May 2016 - August 2016

- Designed inspection surveys for public buildings to help identify & remove hazardous materials by analyzing laboratory data and interpreting environmental regulations to develop best practices for removal
- Performed process management of eight removal projects by monitoring teams of 10-30 people across multiple locations contributing toward removal efficiency and observance of proper safety precautions
    - Completed 6 large school projects with certification from NYSDOL as asbestos-free environments
- Represented building management and construction managers by communicating project updates, performing visual inspections to ensure removal completeness, and creating legal documentation of all events on site

USC Lab, *Undergraduate Research Assistant* Los Angeles, CA | Sept. 2015 - May 2016

- Manufactured small batches of semiconductor devices and developed material enhancements to improve product by optimizing flexibility and light absorption for thin-film technology and other applications
- Generated efficiency values by comparing theoretical and experimental light absorption values
    - Modelled cells in Lumerical FDTD, inputted formulas with MATLAB, and entered datasets into Excel
- Developed tests for synthesis of cells by collaborating with an Optics Lab to analyze the solution with laser spectrometry
- Awarded Undergraduate Provost Research Fellowship for continued efforts in alternative energy innovation
    - Efficiency results of 12.8 - 13.5% for flexible PDMS-stamped cell design with nano-post deposits

PROJECTS

Reactor Modelling, *Numerical Methods in Chemical Engineering* | March 2015 - May 2015

- Collaborated with a team of four members to create an innovative MATLAB program modelling a series of reactors
- Demonstrated ODE solver for a plug flow reactor and simulated Rachford-Rice equation for a flash drum

LEADERSHIP EXPERIENCE

Queers in Engineering, Science, and Technology (QuEST), *Secretary* | August 2014 - Current

- Planned & organized professional events for groups of 15-20 students by communicating with recruiters in order to build historically underrepresented students' career opportunities
    - Improved reliability of attendance and retention by 15% and diversified company portfolio
    - Managed a budget of $12,500 and gained critical financial skills allocating and applying for funding

Environmental Student Assembly (ESA), *External Affairs Chair* | August 2016 - Current

- Set-up panels to increase faculty-student communication and address environmental issues

Viterbi Admission and Student Affairs, *Mentor* | April 2016 - Current

- Motivated team-building through group participation and incited relationships between a class of 28 students

USC Office of Campus Activities, *Alternative Break Representative* | April 2016 - Current

- Created trip planning for a group of 20 students to engage in service learning opportunities in Costa Rica
- Educated students on alternative energy resources such as a hydroelectric and wind

TECHNICAL SKILLS

Computing: Microsoft Office, MATLAB, Polymath, JMP, C++, ImageJ (Contact Angle Analysis), Lumerical FDTD

USC Viterbi
School of Engineering