First Last

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**SUMMARY OF SKILLS**

* Analysis of volatile organic compounds
* Removal of heavy metals from wastewater
* Detection of analytes by amperometric technique
* Skilled in set up, calibration, maintenance and troubleshooting chemistry lab equipment
* Lab instructor experience in Physical Science, Intro. General Chemistry (I) and General Chemistry (II)
* Excellent problem solving and analytical ability with proven planning/organizing and decision making skills
* Proficient in interpretation of experimental results, project management, documentation and technical report writing
* Excellent technical writing and presentation skills with polished written and verbal communication skills

**Specialties:**

* Qualitative and quantitative analysis
* Removal of hazardous material from waste water
* Materials Characterization
* Statistical Analysis: ANOVA, Excel, OriginLab

**EDUCATION**

**Master of Science in Chemistry** May,20XX

University of Louisville Louisville, KY

**Thesis**: Amperometric Detection with a Dendrimer-Encapsulated Platinum Nanoparticle-Carbon Nanotube Composite

**Advisor**: Dr. Marie Curie

**Bachelor of Science in Chemistry** May, 20XX

Bellarmine University Louisville, KY

**Project**: Interaction of Cr(VI) with Activated Charcoal obtained from Biomass

**Advisor**: Dr. Louis Pasteur

**EXPERIENCE**

**Gas Chromatography/Mass Spectrometry Analyst** 20XX to present

**Department of Chemistry, University of Louisville** Louisville, KY

* Analyze volatile organic compounds
* Perform quality assurance checks, equipment maintenance, certification and cleaning
* Provide supplies to field operations staff
* Perform data analysis and report to the project manager

**Lab Instructor** 20XX to 20XX

**Department of Chemistry, University of Louisville** Louisville, KY

* Instructed students in fundamental concepts of physical science, and quantitative and qualitative analysis
* Instructed students in measuring concentration of unknown acid base and maintaining pHs of solutions
* Demonstrated different complex reactions in lab and explained the reaction mechanism
* Tutored basic concepts of organic, inorganic and physical chemistry
* Designed experiments and honors projects based on student’s interests and abilities, and curriculum objective
* Developed learning aids, course materials and quizzes, and assisted students in result organization
* Proficient in planning, preparing, and implementing lab lessons and office hours in coordination with the instructor

**PROJECT AND RESEARCH WORK**

**Graduate Research:** Detection of biological samples by amperometric techniques

* + Prepared ZnO-CNT, CeO2-CNT, Pt-DEN-PANI-CNT composites
  + Performed phase identification and microstructural analysis
  + Performed numerous experiments for detecting H2O2, uric acid, acetaminophen, ascorbic acid, and folic acid using above-mentioned composites by amperometric techniques

**Graduate Research**: Removal of hazardous material from synthetic waste water

* + Prepared and activated charcoal from vegetable waste
  + Measured surface area, Zero Point Charge, and performed structural & functional analysis
  + Removed Lead & Chromium successfully by adsorption process from synthetic wastewater

**PUBLICATIONS**

**Book Chapter:**

* + **Last, F.**; Author, A, “Aqueous Solution Surface Chemistry of Carbon Nanotubes.”  In *Physical and Chemical Properties of Carbon Nanotubes.*  A. Author, Ed. InTech (ISBN 999-123-456-000-1), InTech, 2013, pp. 263-283

**Journal Publications:**

* + Author, A.; Author, B.; **Last, F.**; Author, C.; Author, D.; Author, E.; Author, F.; Author, G.; “Morphology of hydrothermally synthesized ZnO nanoparticles tethered to carbon nanotubes affects electrocatalytic activity for H2O2 detection.” *Electrochim. Acta*, 2013, **97**, 99-104
  + **Last, F.**, Author A, & Author B. Active carbon prepared from vegetables wastes for the treatment of Pb(II) in aqueous medium, *Bangladesh J. Sci. Ind. Res.* 2013 **48(2)**, 97-104
  + **Last, F.**, Author A, & Author B. Interaction of Cr (VI) with activated charcoal obtained from biomass. *Bangladesh J. of Sci. Res.* 2011 ***23*(1)**, 1-10

**Conference Presentations:**

* + **Last, F.**; Author A; Author B; Author C; and Author D. Amperometric Detection with a Dendrimer-Encapsulated Platinum Nanoparticle-Carbon Nanotube Composite. Presented at The Southeast Regional Meeting of the American Chemical Society 2013, Loews Hotel Atlanta, GA, USA, Nov 12-16, 531
  + Author, A.; Author, B.; **Last, F.**; Author, C.; Author, D.; Author, E.; Author, F. Selective detection of Uric Acid, Acetaminophen and hydrogen peroxide using ZnO carbon nanotube composites. Presented at 64th Southeast Regional Meeting of the American Chemical Society 2012, Raleigh, NC, United States, Nov 14-17, 1332
  + **Last, F.**; Author, B. A novel adsorbent for treatment of wastewater containing chromium (VI). Presented at 25th Annual Conference of Bangladesh Chemical Society 2010, Jahangirnagar University, Savar, Dhaka, Bangladesh, Dec 10-12

**Professional Associations**

Member of American Chemical Society (ACS) 20XX

Member of Institute of Food Technologists (IFT) 20XX