

EDUCATION

The City College of New York, New York, NY
B.E. in Chemical Engineering

GPA 3.41
June 2017

DESIGN EXPERIENCE

Senior Design Project, The City College of New York

08/2016-12/2016

- Worked in a team of 3 to create feasible method of generating hydrogen via the catalytic partial oxidation of methane
- Used Aspen Plus Software to simulate and design a hydrogen production plant
- Placed 1st out of 12 groups in class; achieved perfect scores for Aspen simulation, design presentation, and report.

WORK EXPERIENCE

Sustainable Waste Power Systems, New York

Engineering Intern

05/2016-Present

- Designed a process development unit to evaluate the optimal residence time in the gasification of wet waste
- Characterized various residue samples from gasification experiments, utilizing techniques such as BET, MicroGC, SEM/EDX, and calorimetry

Combustion and Catalysis Laboratories CCL

Undergraduate Research Assistant

06/2015-Present

- Conducted research in applied Waste to Energy technology
- Determined the energy content of several samples by calculating their calorific value
- Evaluated samples with X-Ray Diffraction and Scanning Electron Microscopy coupled with Energy Dispersive X-ray SEM/EDX technology to determine composition and shape of materials in study

Escape Stores, Medellin, Colombia

Financial Assistant

06/2011-04/2012

- Analyzed sales regularly to manage life cycle of product, inventory models and selling rates
- Ensured excellent customer satisfaction by working with customers to address their needs
- Represented customers and spoke on their behalf when necessary

Antioquia Government, Medellin, Colombia

Accounting Assistant

06/2010-12/2010

- Compiled routine numerical information for reporting purposes, both written and electronically, including recurring reports on internal computer records
- Prepared and checked invoices, requisitions and other documents for processing; encoded and obtained approval when necessary

QUALIFICATIONS

Technical: Proficient in MATLAB, ArcGIS, Microsoft® Word, Excel, and PowerPoint.

Key Skills: Hard worker, professional, team player, critical thinker, interpersonal, organized, dedicated, and responsible

Languages: Fluent in Spanish; Basic Italian

AFFILIATIONS

Member, National Society of Leadership and Success

01/2015-Present

Member, Latin American Engineering Student Association (LAESA SHEP)

08/2014-Present

Social Media Chair Person, Chemist Club

08/2015-05/2016

Chem-E Car Project Member, American Institute of Chemical Engineers

01/2015-12/2015

HONORS/AWARDS

- ASME Materials and Energy Recovery Scholarship 08/2016
- NYC LSAMP 2015 Research Scholar Award 06/2015-Present
- Schmidt Scholarship 01/2016-Present
- Dean's List CCNY 2014-2015-2016