

SUMMARY

Second year Chemical Engineering student with engineering project experience, skills in 3D modeling, MATLAB simulations, and project management, a solid work history, and campus involvement, seeking a Summer 2017 Internship.

EDUCATION

Michigan Technological University
BS Chemical Engineering
GPA: 2.66 | Dept. GPA: 4.00

Houghton, MI
Expected 2019

ENGINEERING PROJECT EXPERIENCE

Project: Design process plant for manufacture of bio-diesel from cultivated algae.

- Create Design Proposal introducing Algae Oil – Biofuel Diesel process and environmental impact, including chosen algae, growth rates, nutritional req., lipid levels, extraction method, and project management plan.
- Develop Project Concept report with algae growth plant layout, plant extraction and refinement systems
- Functionality & benefits, incorporation of bio-mimicry & timeline.
- Create Hazard Analysis Report including hazard ratings justification & recommendations for increased safety.
- Design Algae to Bio Diesel process plant using UGNX.
- Write Project Resource Budget for material and energy costs for every step of process.
- Wrote 20+ page technical report and presented PP and oral report to other classes and faculty.

Project: Design product manufacturing process (heated headlights)

- Create design proposal introducing product, functionality & benefits, incorporation of bio-mimicry & timeline.
- Develop Proof of Concept: fit, form, function, production costs calculated, including machinery, energy, salary.
- Simulated full production cycle to calculate net profit, expenses, and loan payoff using MATLAB.
- Wrote and presented feasibility report for product to class mates and professor.

ENTREPRENEURIAL EXPERIENCE

Founder & CEO | JDMopars43 | Reese, MI | May – Aug 2016

Liquidated automotive part inventory and provided other sales services for 3rd party.

- Researched parts for sales listings
- Created eBay marketing, promotions, and listings
- Procured packing and shipping materials & created verified shipping labels for each shipment
- Met with customers who preferred to pick-up parts personally
- Recorded and managed budget, including profit, expense, and commission

COMPUTER & TECHNICAL SKILLS

UGNX | MATLAB | Mathematica | MS Office, including Excel

WORK HISTORY

Crew Member | McDonalds | Frankenmuth, MI | June 2014 – Aug 2015 & June – Aug 2016

General Construction Laborer | Janson Builders | Saginaw, MI | June – Aug 2012 & 2013

CO-CURRICULAR INVOLVEMENT

Member, American Institute of Chemical Engineers (AIChE)

Member, Society of Petroleum Engineers (SPE)

Member, Airsoft Association of MTU