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## **Wear of tools used in sheet metal stamping**

Rafael David Ortega-Perea

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## RAFAEL ORTEGA-PERIA

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### OBJECTIVE

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Full time entry level mechanical engineering position.

### EDUCATION

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#### NORTHERN ILLINOIS UNIVERSITY, FALL 2018

DEKALB, IL

*Bachelor's in Mechanical Engineering with Upper Honors*

*Emphasis on Sustainable Energy*

GPA: 3.72/4.00

#### KISHWAUKEE COMMUNITY COLLEGE, FALL 2015

MALTA, IL

*Associates of Science*

GPA: 3.33/4.00

### TECHNICAL SKILLS

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Microsoft Office Suite

AutoCAD

C++ Programming

Bilingual in Spanish and English

Proficient Solidworks & CREO

Ansys (APDL & Workbench)

Social /Public Speaking

GD&T Knowledge

LabVIEW

Business Concepts

Organization

Detail Oriented

### RELEVANT ENGINEERING SKILL TOPICS AND OTHER COURSEWORK

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#### TECHNICAL ELECTIVES:

Alternative & Renewable Energy, Electrochemistry Energy Conversion and Storage Systems

#### BUSINESS & OTHER COURSEWORK:

Microeconomics, Macroeconomics, Engineering Economy, Intro to Philosophy and Psychology

### PROFESSIONAL EXPERIENCE

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#### RICHARDSON ELECTRONICS, LTD

LAFOX, IL

Mechanical Engineer Intern

November 2017 – August 2018

- Created drawings using SolidWorks from sketches, markups, or written requirements.
- Designed check fixtures to evaluate if part is within desired tolerances.
- Performed tasks on creating and modifying manufacturing documents (i.e. fabrication sequences, comments, and bill of materials).
- Developed presenting skills and gain experience in technical writing.
- Familiarized in using EPDM Solidworks.
- Created user friendly excel programs for employees to use.
- Gained experience in sheet metal designs and creating drawings via SolidWorks.

#### NIU SENIOR DESIGN

DEKALB, IL

ICEBOX derby – ComEd

Fall 2017 – Spring 2018

- Worked on implementing friendly interface onto go kart to display velocity and acceleration.
- Worked with sheet metal to create a chassis/housing for the 3-D case that was implemented onto the chassis of the go kart.
- Gained 3-D printing experience in designing the casing of the sensors and raspberry pi.

### RELATED WORK EXPERIENCE

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#### NEHRING ELECTRICAL WORKS

DEKALB, IL

Class A Stranding Operator

June 2015 – April 2016

- Manufactured specified electrical wire per order and perform daily maintenance on machine.
- Gained knowledge on the manufacturing process workflow.
- Gained forklifting experience.

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**CEVA LOGISTICS**

Supply Chain Operations Clerk

**DEKALB, IL**

August 2018 – current

- Trace and track customer freight, take pick-up requests, route and book freight as needed.
- Enter shipment data in system.
- Run, maintain, and file reports.
- Proactively inform shippers and consignee(s) of problems.