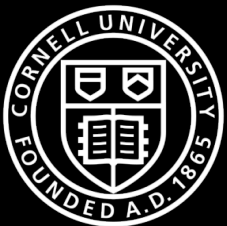


ECE
Master of Engineering
Poster Overview



3/26/2024

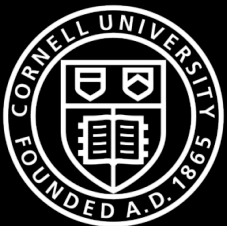
Poster Overview

Outline

Guide for Poster Creation

Example Posters

Poster Session: Presentation Tips





Revolutionizing Veterinary Education: Canine Eye Simulation for Hands-On Learning

Authors: Frances Lee, Jackie Yao, Lily Yu
Advisors: Joseph Skovira, Dr. Daniel Fletcher

Hardware Breakdown

Eye Configurations for Different Scenarios

Communication

Alpha CubeSat Attitude Control System and ChipSat Communications

CubeSat Structure

Attitude Control System

Design of Extended Kalman Filter in Simulation

Supervisors:
Senior Lecturer Joe Skovira
PhD. Candidate Joshua Umansky-Castro

Cornell Engineering Electrical and Computer E

Cart-E: Indoor Tracking Device

Author: Alga Peng (ap444@cornell.edu), Xiangyi Zhao (xz598@cornell.edu)
Advisor: Professor Joseph Skovira

AWS EC2 SERVER

PCB DESIGN

WiFi ADDRESS MAPPING

Optimization of Low Permeability Cored Inductors for High Frequency Capacitive Wireless Power Transfer (WPT) Systems

Rabih Makhdoum and Khuram K. Afridi
School of Electrical and Computer Engineering, Cornell University

Introduction

Use of Cored Inductors

Power Loss Optimization

Simulations and Results

Summary and Conclusion

Acknowledgements

References

Which Generators Should Turn On? -- Unit Commitment in Power Systems

Ziqing Liang Advisor: Hsiao-Dong Chiang

Why is unit commitment important?

Modeling the problem by mixed integer optimization

Result Validation Using Economic Dispatch

Unit Commitment Decisions and Results

Solving nonlinear systems during validation: QGS

Whole-Arm Force-Sensing Skin for a Robotic Arm

Author: Grace Zhang Advisor: Tapomayukh Bhattacharjee

Overview

Skin Design

Testing and Results

Future Work

References

Acknowledgments

Upcoming Dates

3/26: Poster Information Session

3/30 – 4/7 : Spring Break!

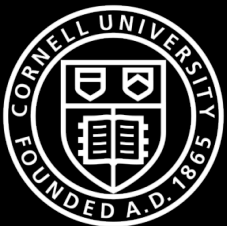
4/16: Poster draft 1 for review

4/26: Poster registration

5/3: Draft MEng Final report for review

5/7: Poster Day!

5/17: Final Meng Project Report due to Scott



A poster is:

A conversation starter

A visual representation of your work = Visual Abstract

A 'hook' to draw people in

A guide to enhance your discussion

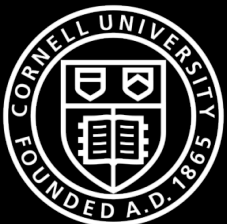
A poster is **NOT**:

Your report taped to the wall

'Blocks of of text' that you read through

Detailed description of your entire project

...in case you step away from the poster



Poster Creation

Planning

Focus

Layout

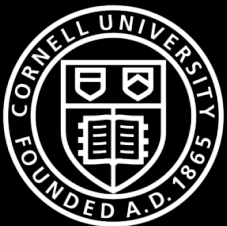
Headings

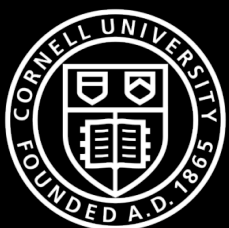
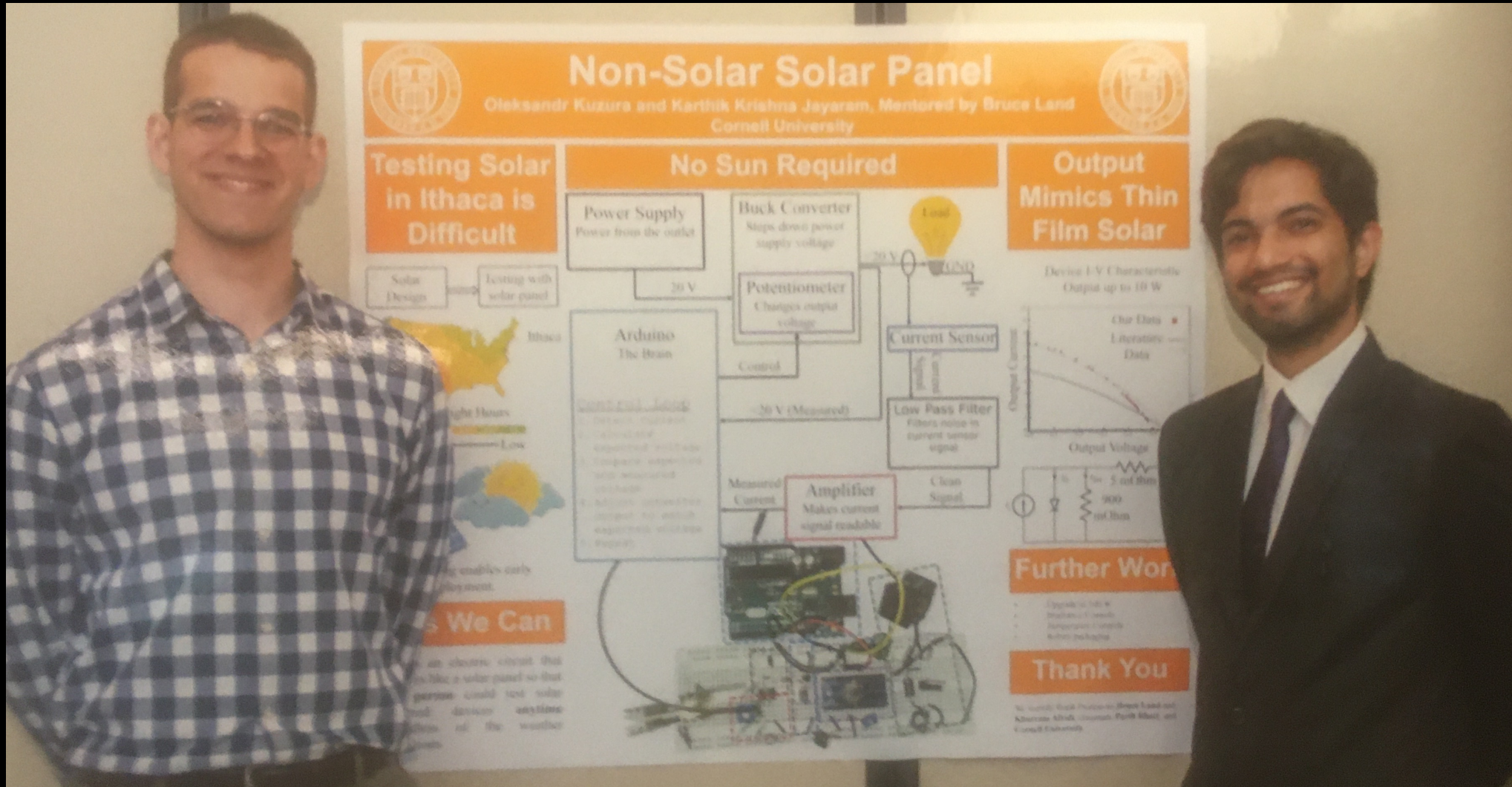
Graphics

Text

Editing

<https://https://sites.google.com/ncsu.edu/effective-posters/home>





Poster Overview

Poster Creation

Poster Size: 42 inches wide (max) by 36 inches high

Use Powerpoint to create poster

Save as pdf for submission and printing

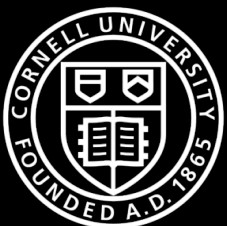
Suggested Font Choices and Sizes:

Title: Helvetica, 100-144 points

Section Headings: Helvetica, 72-84 points

Main Content: Times, 18-24 points, 1.2 – 1.5 spaced

Acknowledgements and References: Times, 10-16 points, single spaced



Elevator Speech

What is the problem?

Proposed solution

Actual solution

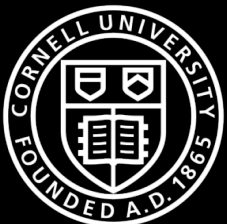
Results:

Data that prove solution works and is an improvement

Write out your elevator speech

Edit

Practice, practice, practice



At the Poster Session

Professional Attire

Put Down That Phone

Turn it off!

Stay with poster for the entire session

Introduce yourself and notice name tags

Make eye contact and engage visitors

Deliver 2-minute summary

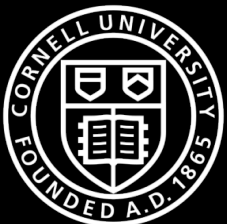
Treat everyone like the boss

Note: No demos

No prototypes

At poster session

**The poster and
your interaction
are the message**



Resources

Links at skovira.ece.cornell.edu

Communication from Scott Coldren

Hallway Example Posters

