

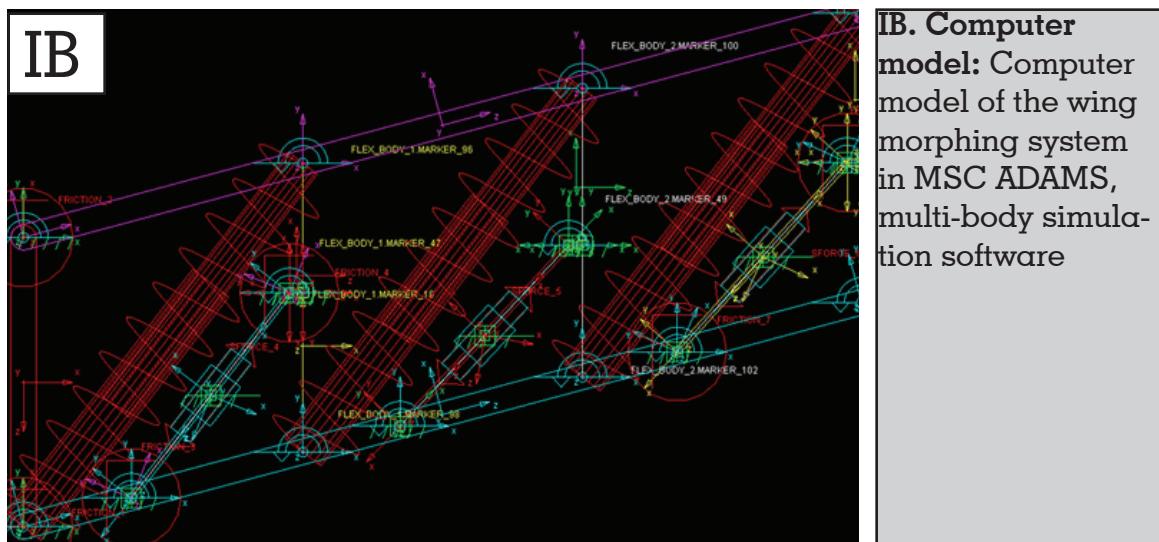
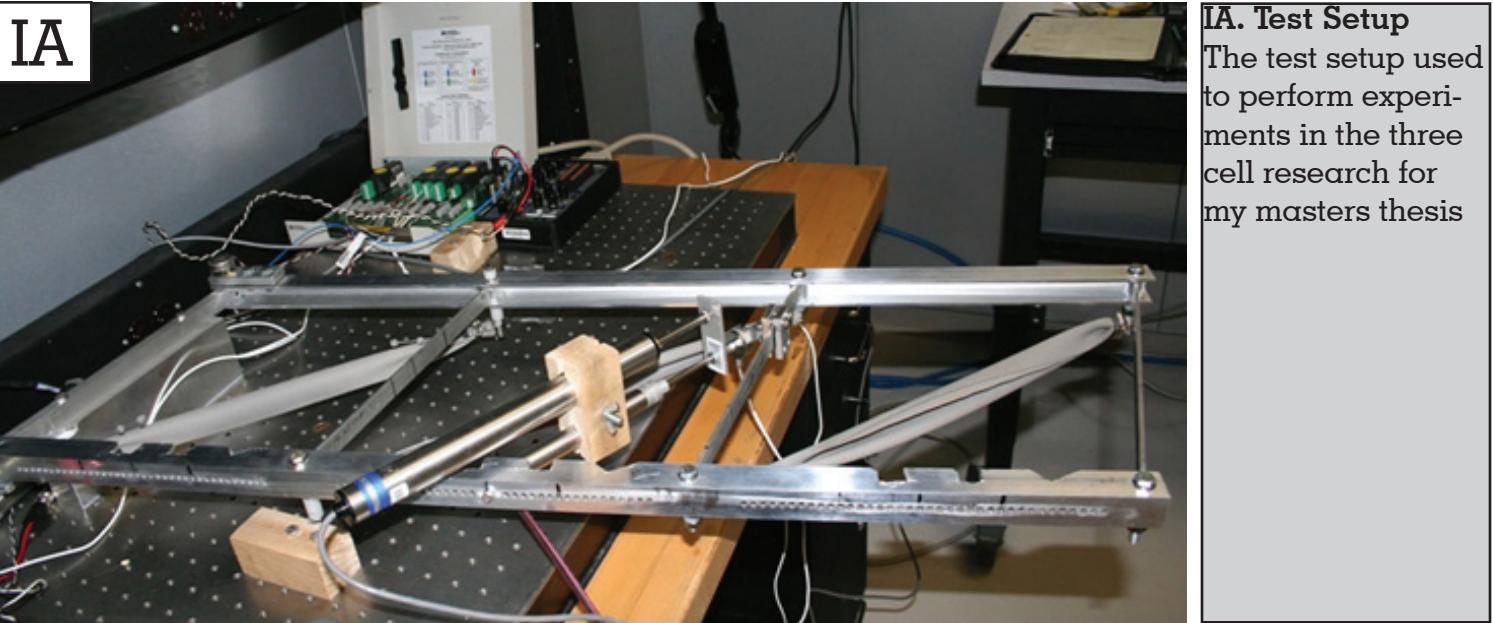
Brendan O'Grady

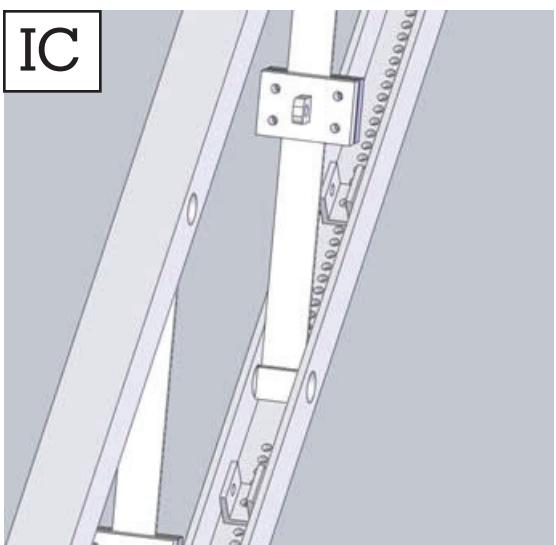
Design Work

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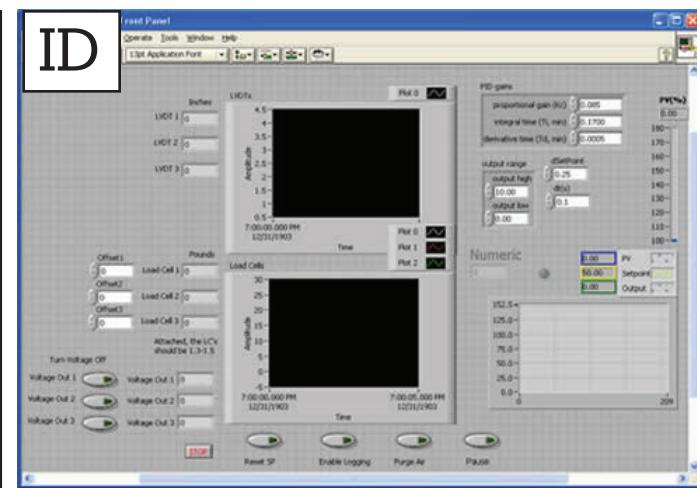
I. THESIS RESEARCH

MORPHING WING OPTIMIZATION



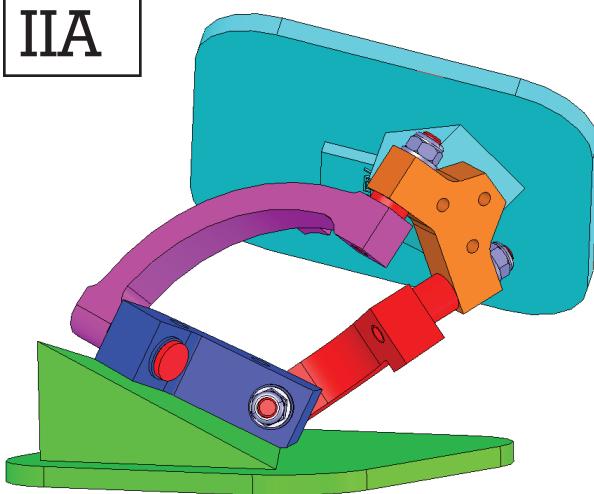
IC

IC. Test Setup:
The design of the experimental test setup in Solidworks

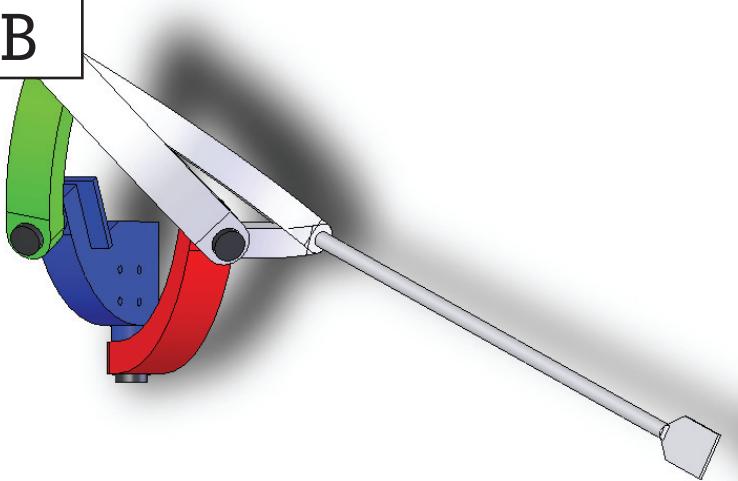
ID

ID. Labview:
Screenshot of the program in LabView that was used to control the experiment and acquire data

II. MECHANISMS

IIA

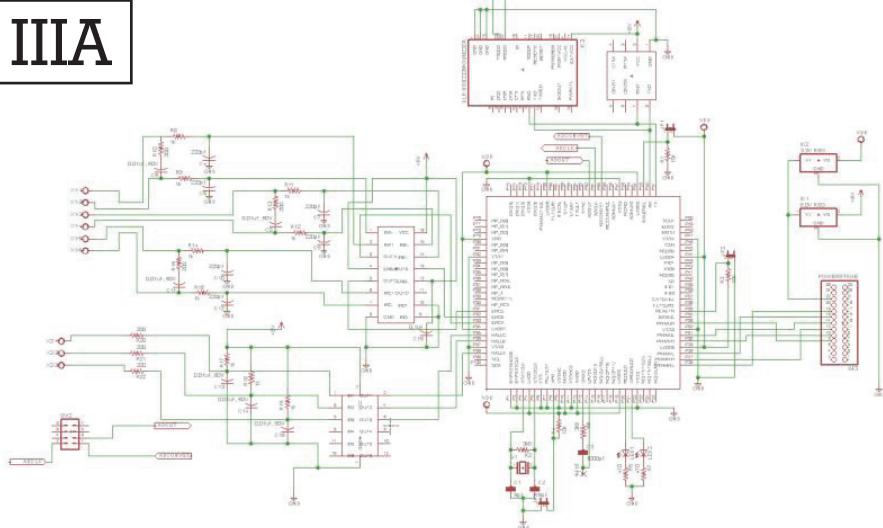
IIA. P-POD Spherical Mechanism:
A spherical mechanism design to demonstrate the technology, manufactured using a Z-Corp 3D printer

IIB

IIB. Rowing Mechanism:
A spherical mechanism that reproduces a rowing stroke

II. CIRCUIT DESIGN

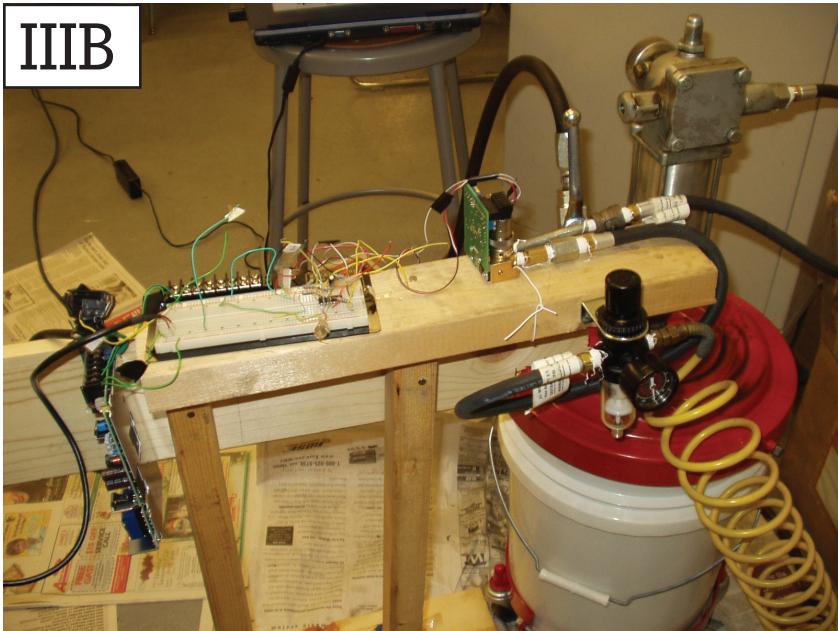
III A



IIA. AC Motor Control:

A circuit designed to interface a motor control IC with the computer in order to develop motor control applications. Layout and board design with EAGLE PCB editor.

IIIB



IIB. Automated Lubri- cation System:

A product that controls the air pressure to a pneumatic lubrication pump at a user defined interval and displays the status. System integrates sensors and controls using a microcontroller.

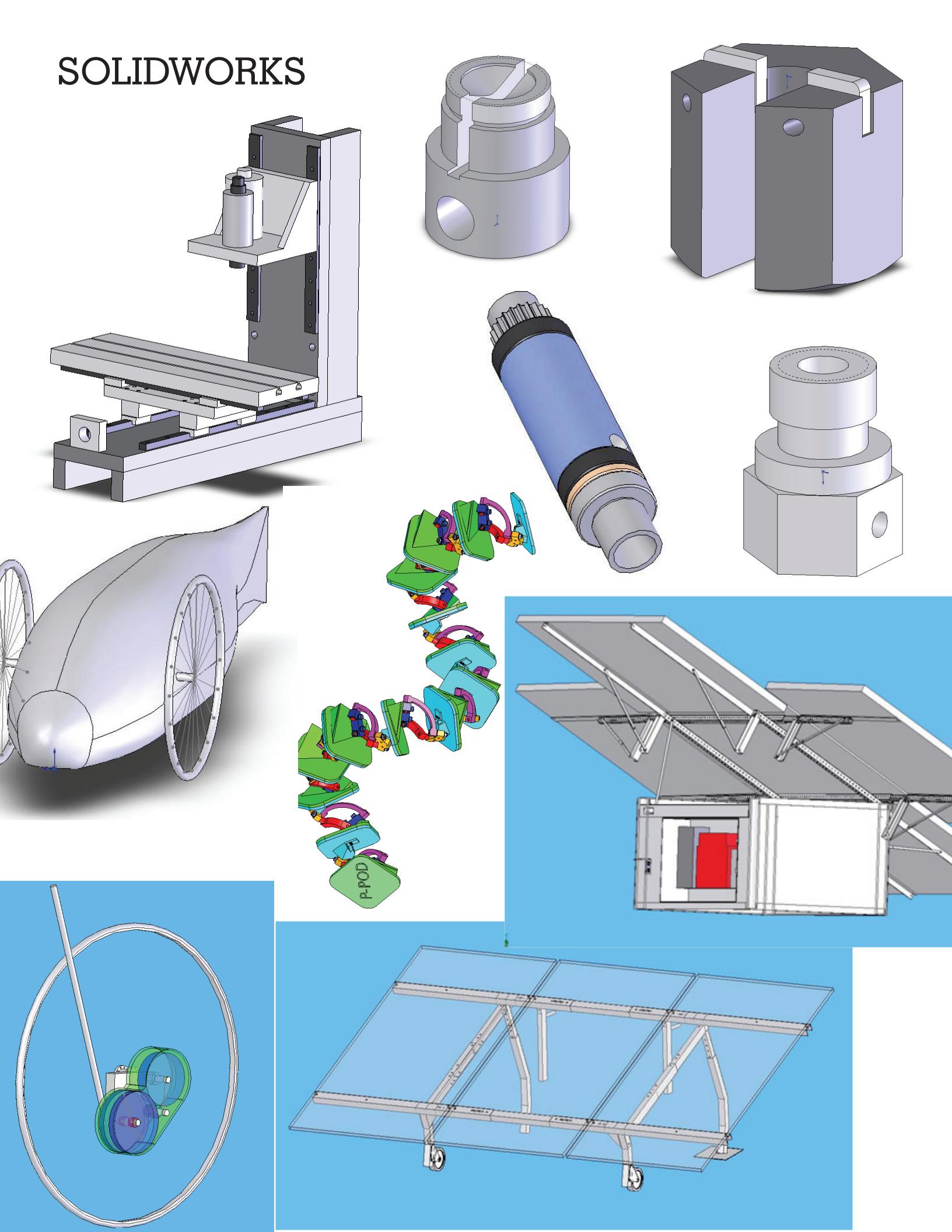
IIIC



IIC. Data Aquisition:

Integrating sensors
and controls using
National Instruments
equipment and Lab-
view software.

SOLIDWORKS



COMPOSITES WORK

