

A dark blue world map with glowing yellow and white dots representing city lights at night. The text is overlaid on the map.

Meros: Remapping Light in the Urban Journey

Thesis Research 2008
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Core Concept:

Looking at how we move through the spaces we live in...



Core Concept:

Looking at how we move through the spaces we live in...

and the light we experience.



Record the paths taken on a bicycle,
and the light that was encountered.

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and the light that was encountered.

Then, use the data to map familiar places
with new and unnoticed features.

- Capturing Light Details
 - Mapping
- Aesthetic Inspirations
 - Implementation
 - The Results!

- Capturing Light Details
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- Aesthetic Inspirations
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 - The Results!

...But first, **why?**

Why?

The beauty of the everyday
journey is lost in a sea of noise.

Why?

The beauty of the everyday journey is lost in a sea of noise.

Creating artwork in a process of exploring daily travels and experiences can bring this beauty out.

Light

NB: Video not exported to PDF version.



**Remapping Experiences of Light
in the Urban Daily Journey**

Mapping Light



Mapping Light



8 Second Exposures Map Light Artifacts

Mapping Light

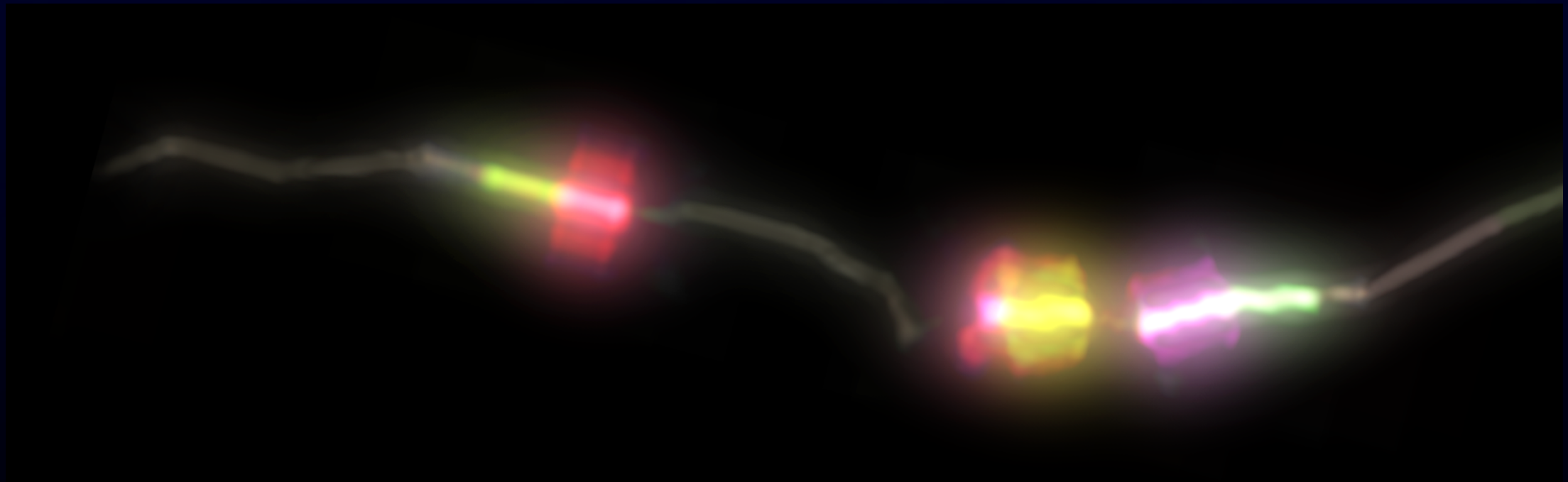


Mapping Light



Street Lamps and an Intersection

Mapping Light



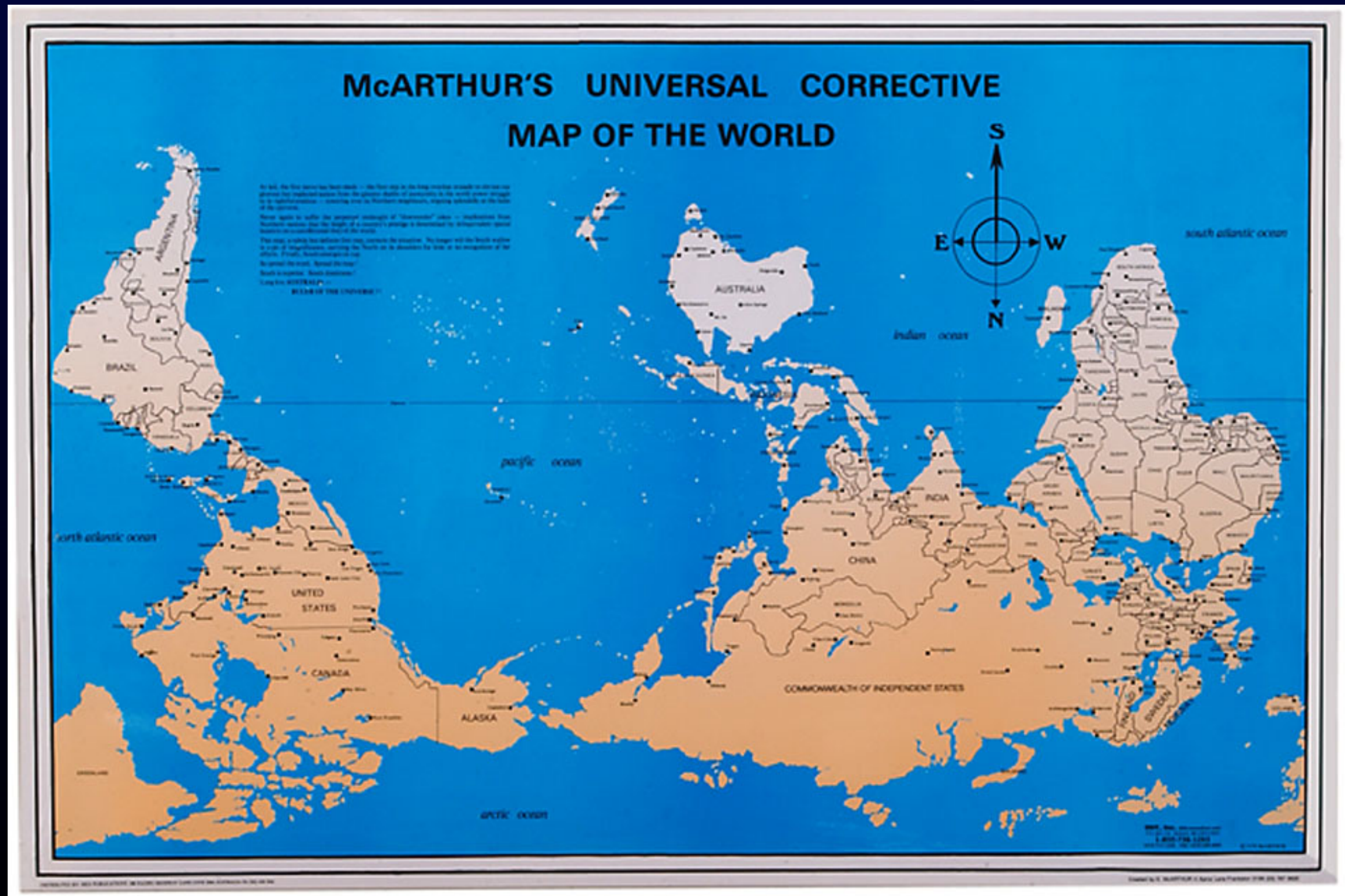
Traffic Signals and Chinese Food

Traditional Mercator Projection: Area Inaccurate



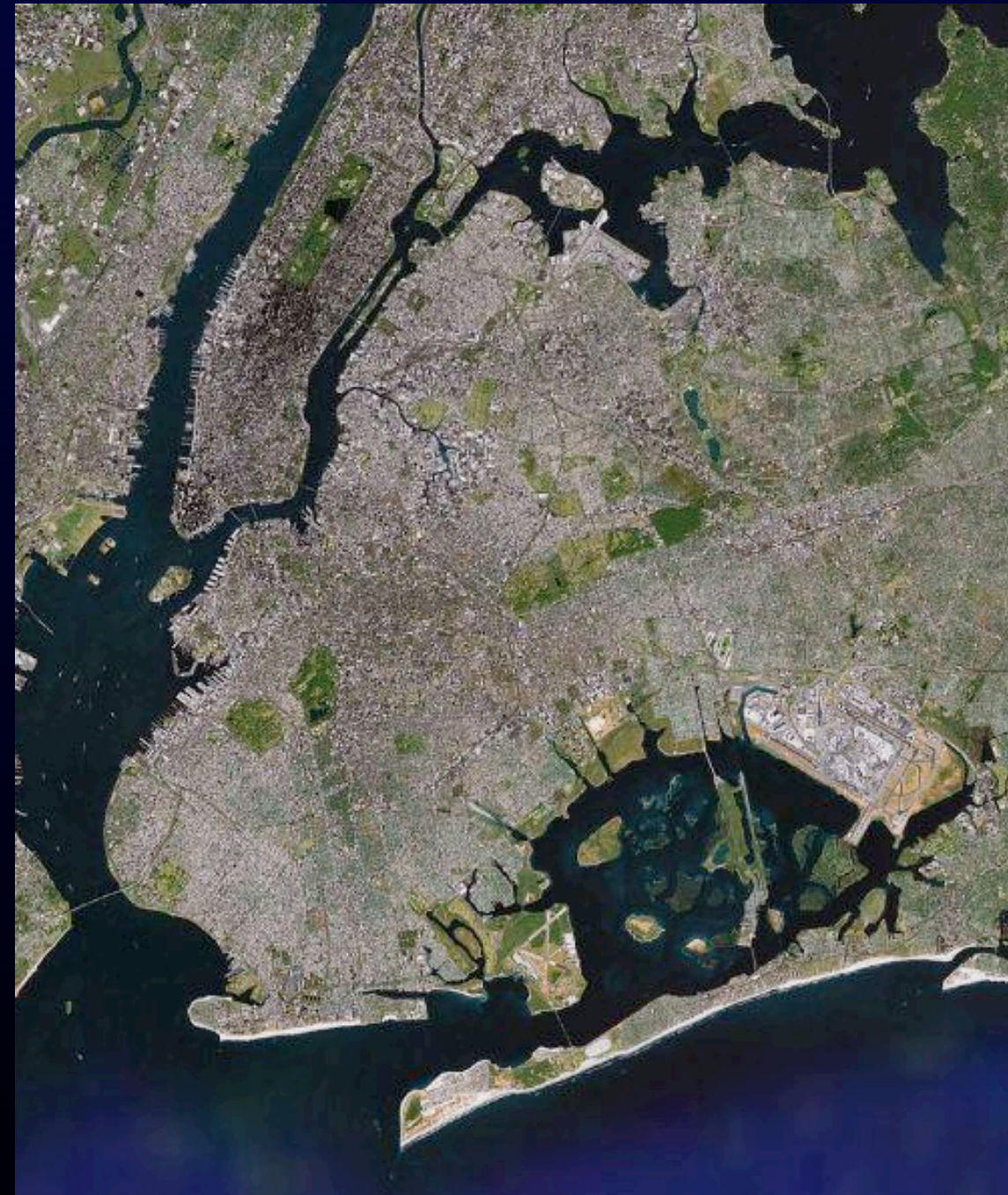
Great for Sea Travel

South Pole Projected Up



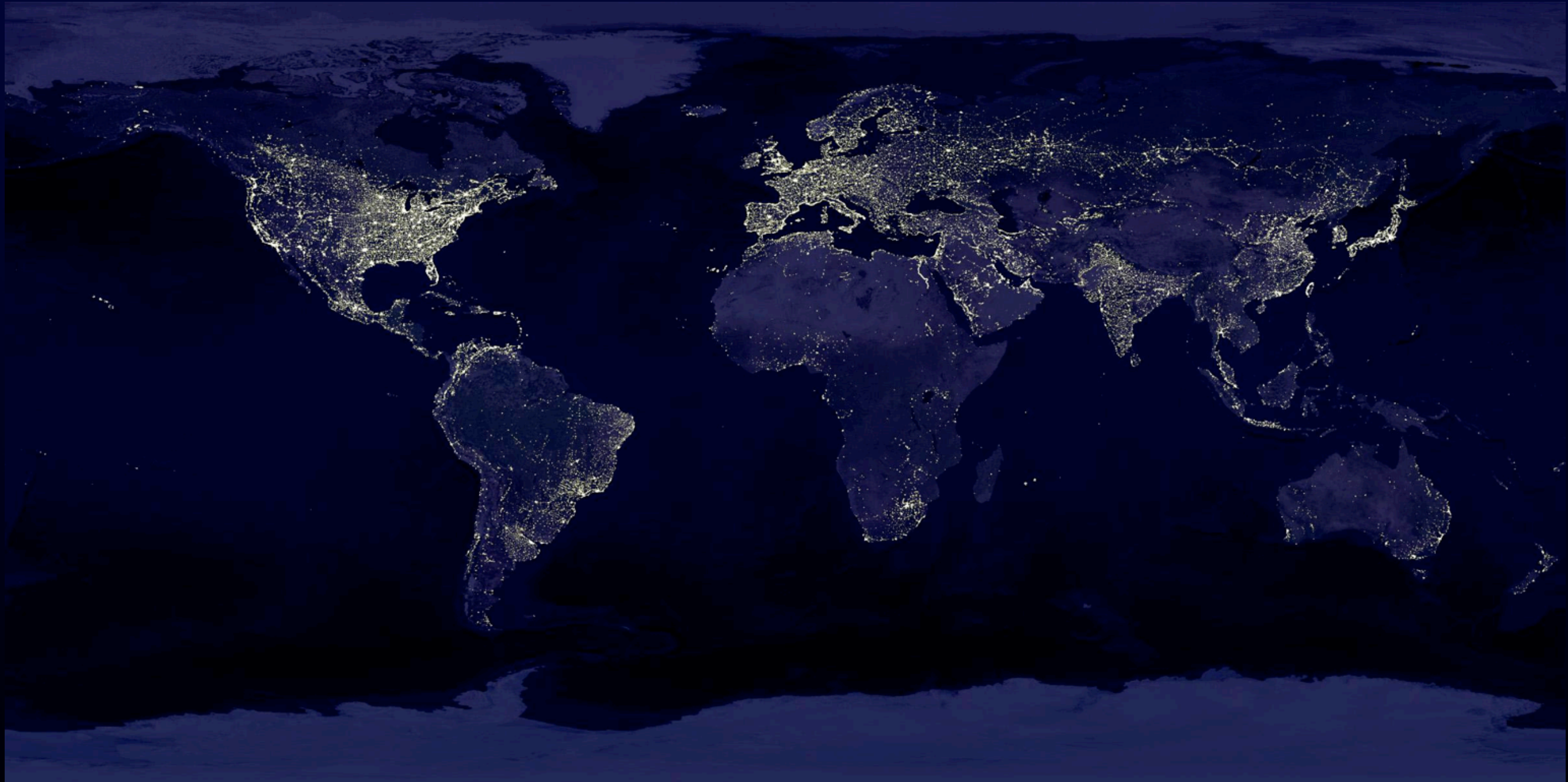
Great for Australia!

Local Geographic Reprojection

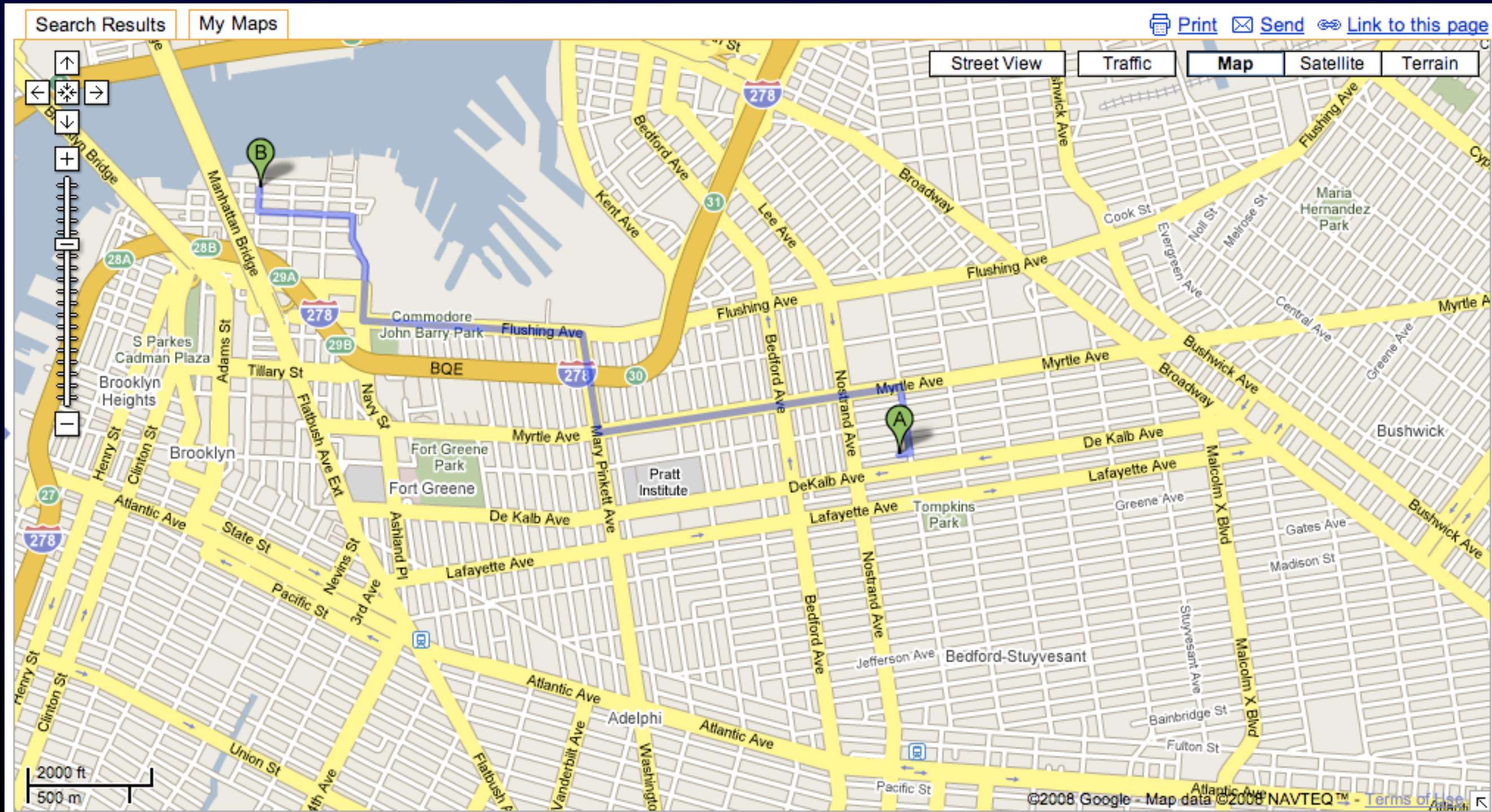


Subway Remapping for Travel

The World at Night: Light as a Narrative



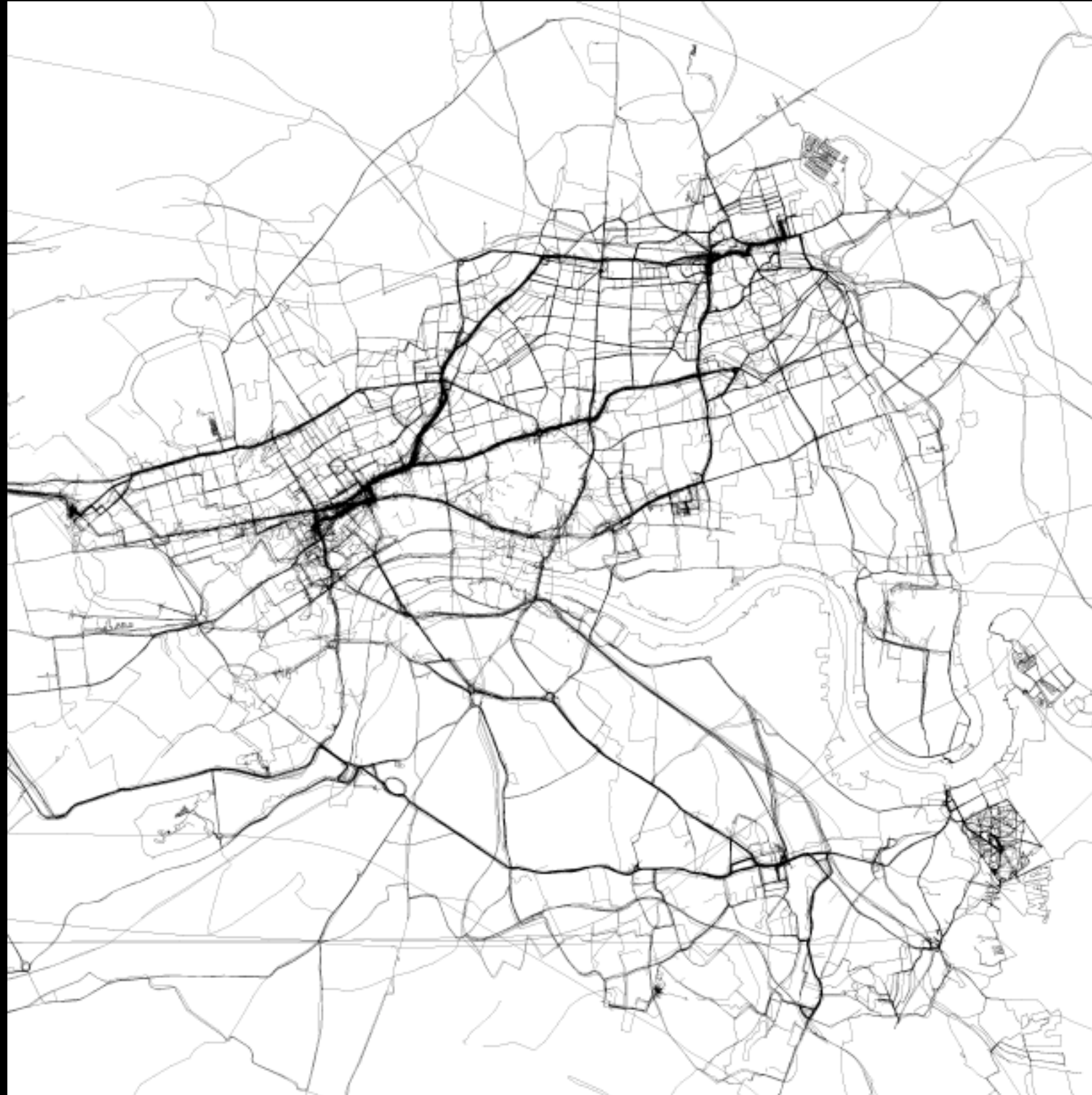
Using Lines in Mapping



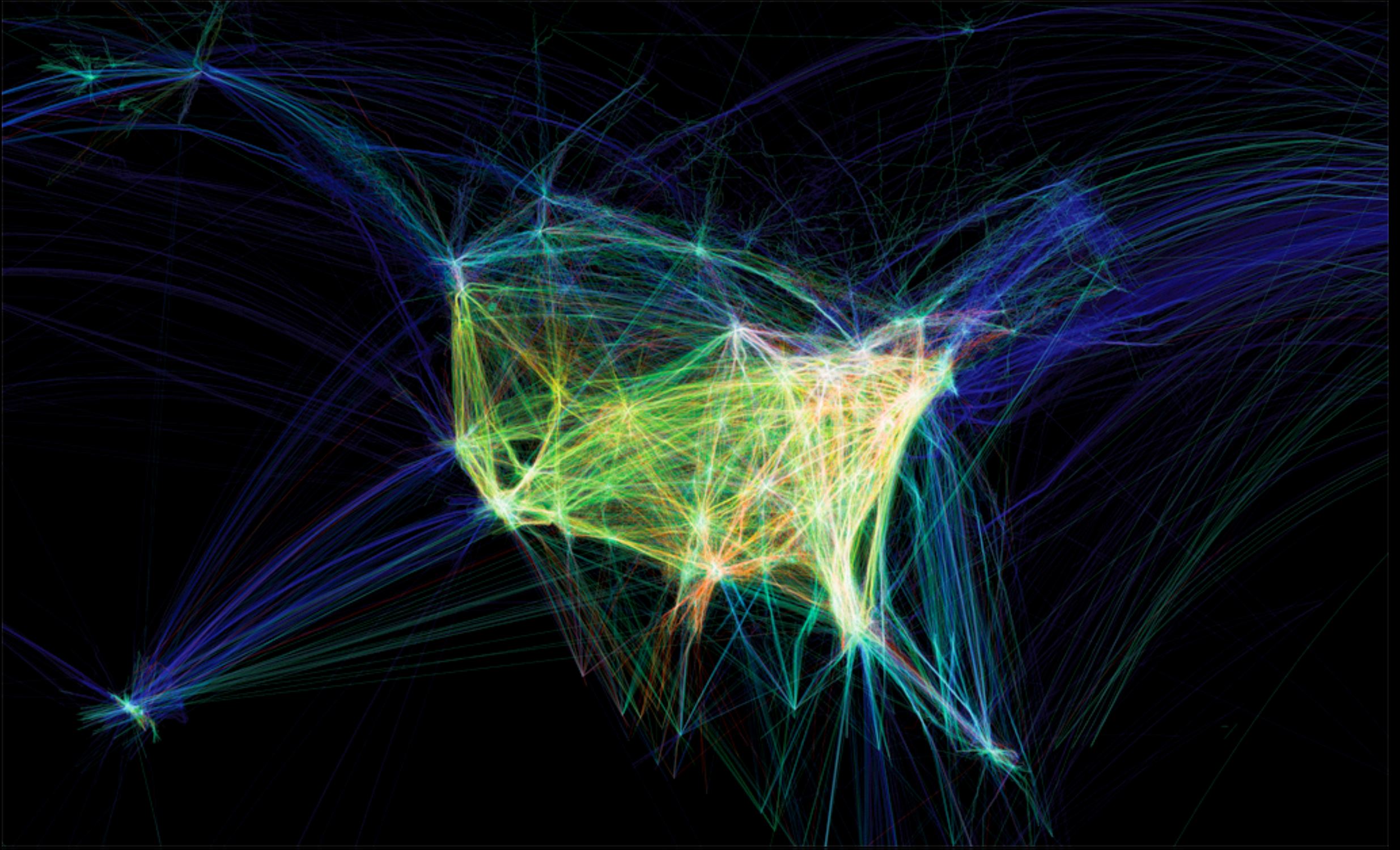
Boundaries and Directions

GPS tracks over London, England

Jeremy Wood 2006



Flight Patterns -- Aaron Koblin 2005



Social Fabric and Networked Experiences

Proboscis 2004

URBAN TAPESTRIES

Author List

Browse by Thread

Browse by Author

dan dean
There are 12 pockets by this author.

dan hill
There are 20 pockets by this author.

Danny Angus
There are 7 pockets by this author.

Garrick Jones
There is 1 pocket by this author.

Giles Lane
There are 113 pockets by this author.

Giles Rolleston
There are 23 pockets by this author.

Jacqueline Carter

Pockets by Giles Rolleston

By Giles Rolleston
Thread : walking the city
Posted on Sat, 26 Jun 2004 16:51:32

group photo
By Giles Rolleston
Thread : walking the city
Posted on Sat, 26 Jun 2004 16:49:51

if music.
By Giles Rolleston
Thread : walking the city
Posted on Sat, 26 Jun 2004 16:33:51

centre point
By Giles Rolleston
Thread : walking the city
Posted on Sat, 26 Jun 2004 15:55:47

woman talking
By Giles Rolleston

Active Pocket

Pocket Title : if music.
Pocket Date : Sat, 26 Jun 2004 16:33:51
Pocket Author : Giles Rolleston
Pocket Thread : walking the city
Image URL : <http://trial.urbantapestries.net/content/1337/ulimage.jpg>

Sound URL : <http://trial.urbantapestries.net/content/1337/sound.wav>
Play Pocket Sound

Pocket Text :
No pocket text.

Map Viewer

Scroll

Zoom Level

Pocket Title :
Pocket Date :
Pocket Author :
Pocket Thread :

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Implementation

Capturing Experiences

Bicycle chosen for reasons of



Capturing Experiences

Bicycle chosen for reasons of
Range and mobility



Capturing Experiences

Bicycle chosen for reasons of
Range and mobility
Sustainable alternative



Capturing Experiences

Bicycle chosen for reasons of

Range and mobility

Sustainable alternative

Mechanically ideal for tracking



Working Title: Meros



MEROS - 2006 - DYLAN MOORE

Reconstructing Paths



Working Title: Meros



MEROS - 2006 - DYLAN MOORE

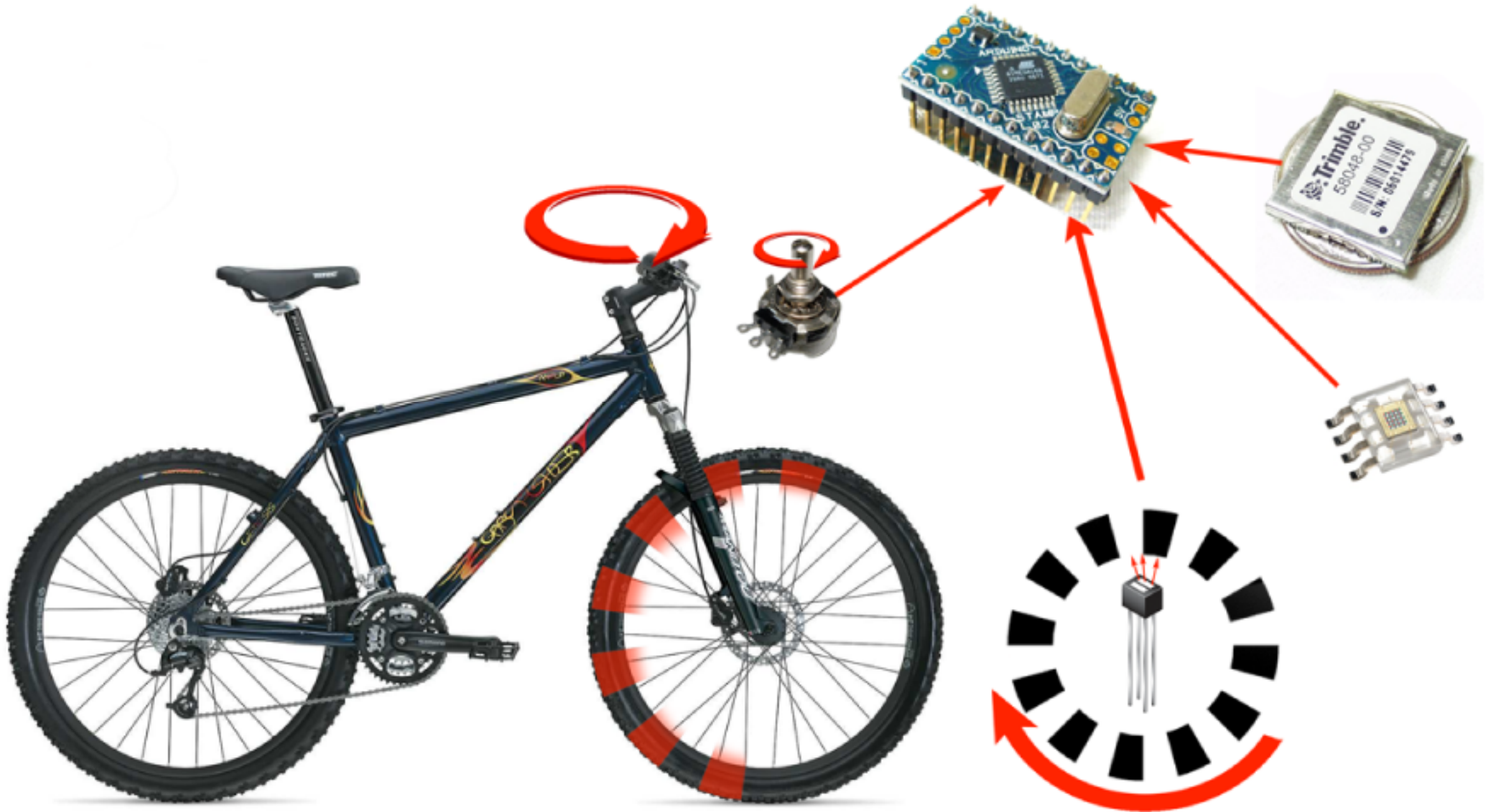
Working Title: Meros



MEROS - 2006 - DYLAN MOORE

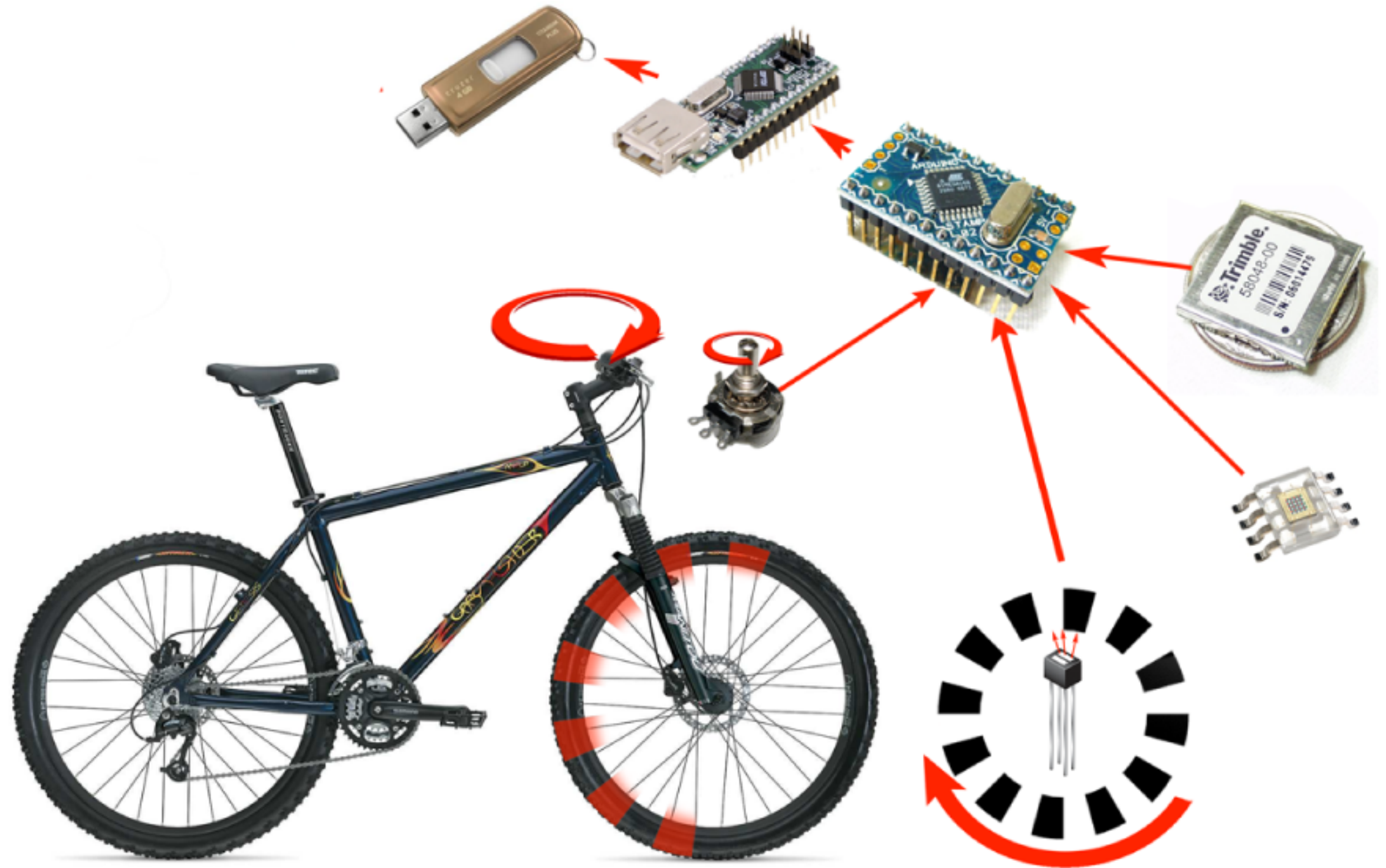


Working Title: Meros



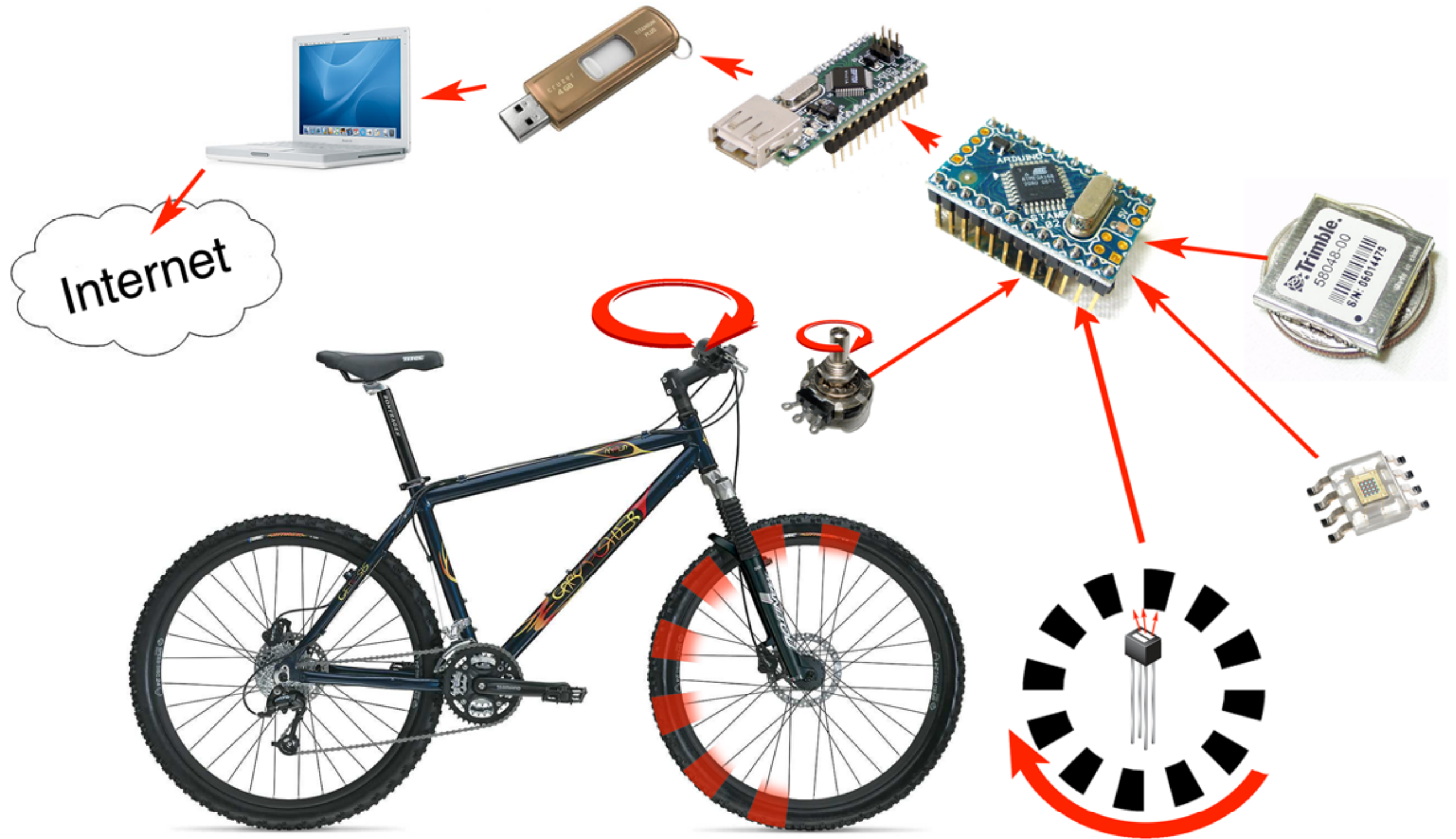
MEROS - 2006 - DYLAN MOORE

Working Title: Meros



MEROS - 2006 - DYLAN MOORE

Working Title: Meros



MEROS - 2006 - DYLAN MOORE

Global Positioning System

Why Use Rotary and Optical Encoding?

Global Positioning System

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1 Hz Update Rate: Frequent Enough?

Global Positioning System

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1 Hz Update Rate: Frequent Enough?

(22 Feet per update, at 15 mph)

Global Positioning System

Why Use Rotary and Optical Encoding?

1 Hz Update Rate: Frequent Enough?

+/- 5 Meters: Accurate Enough?

Global Positioning System

Why Use Rotary and Optical Encoding?

1 Hz Update Rate: Frequent Enough?

+/- 5 Meters: Accurate Enough?

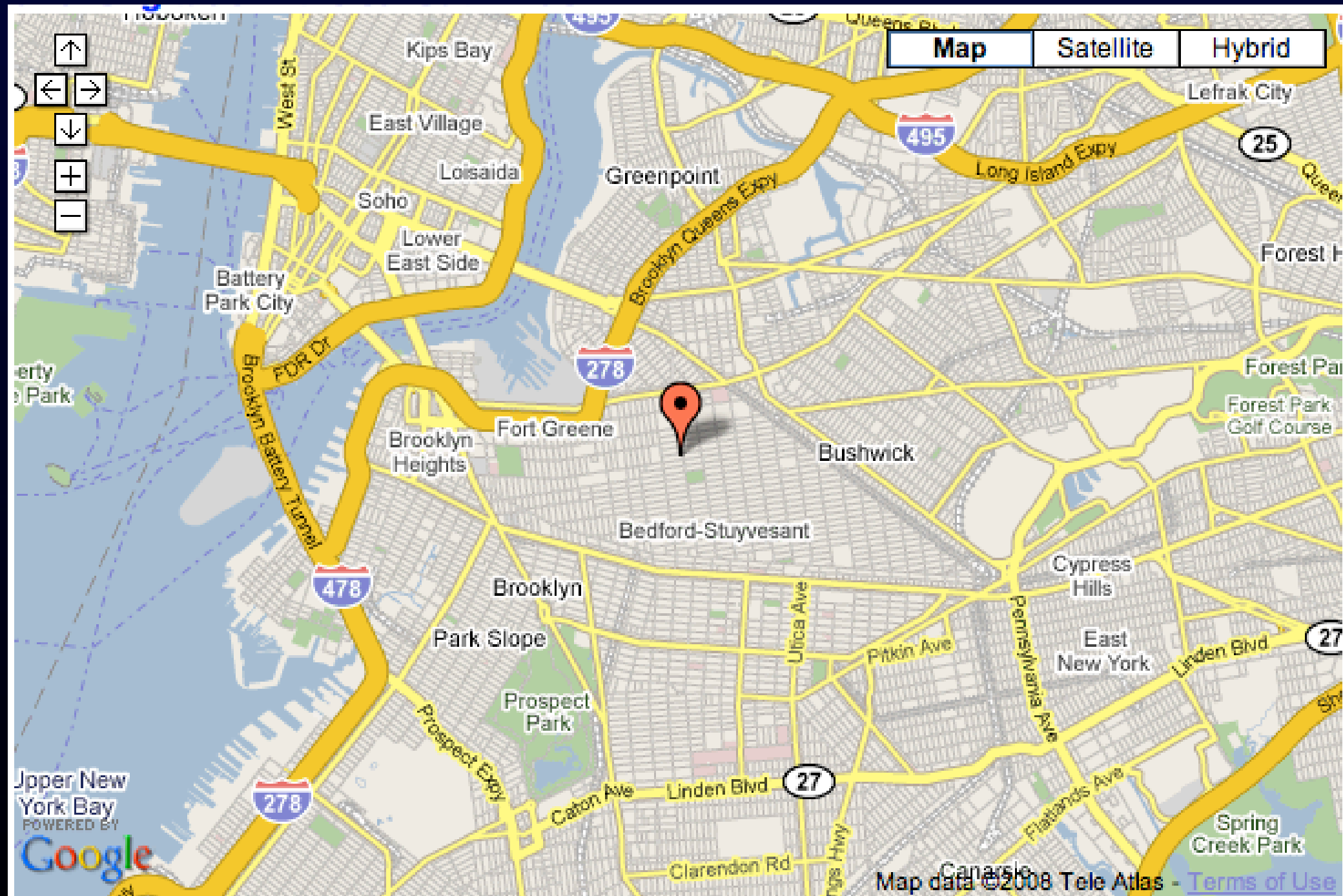
Urban Canyon Effect!

Global Positioning System



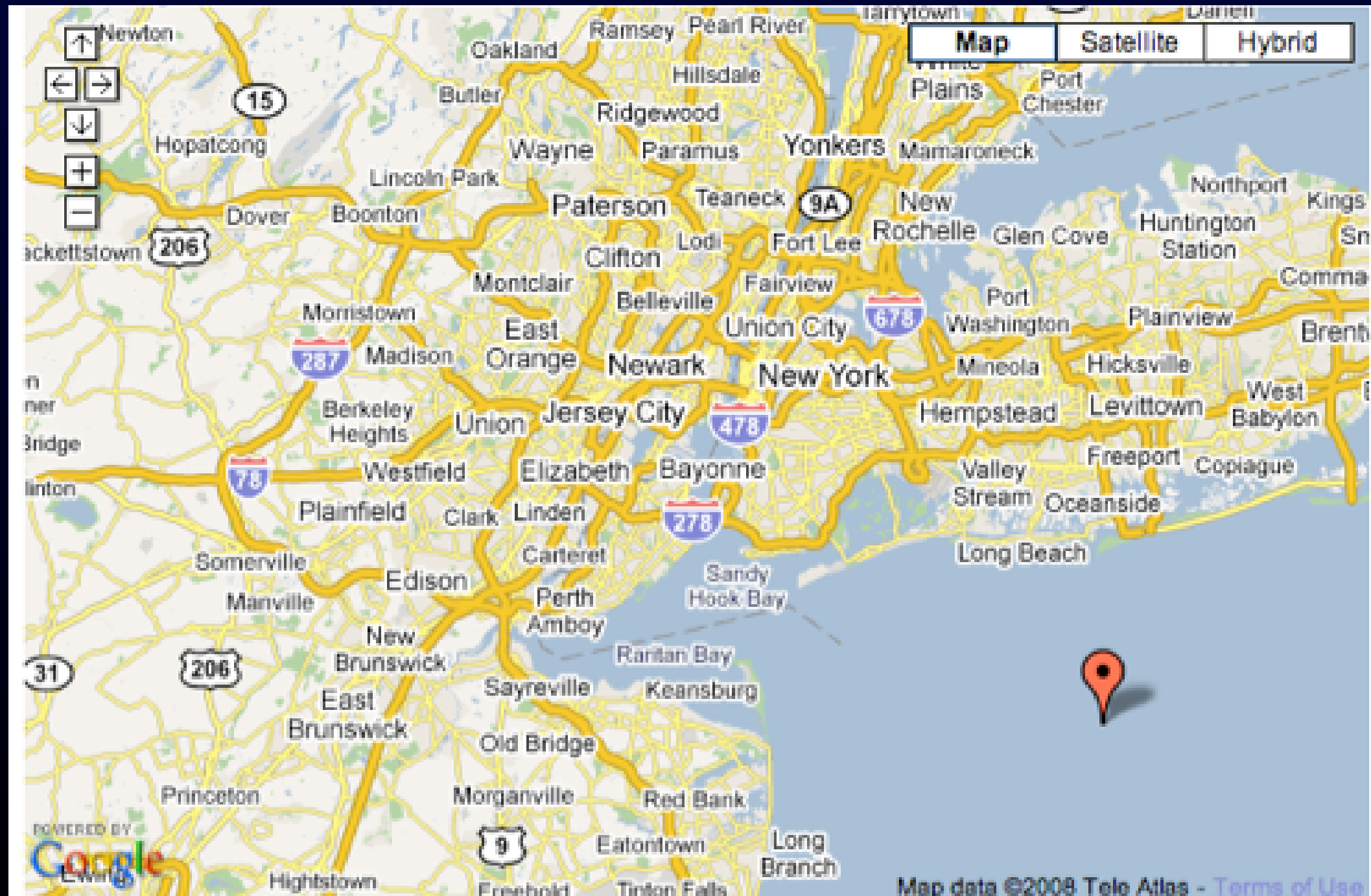
Urban Canyon Effect

Global Positioning System



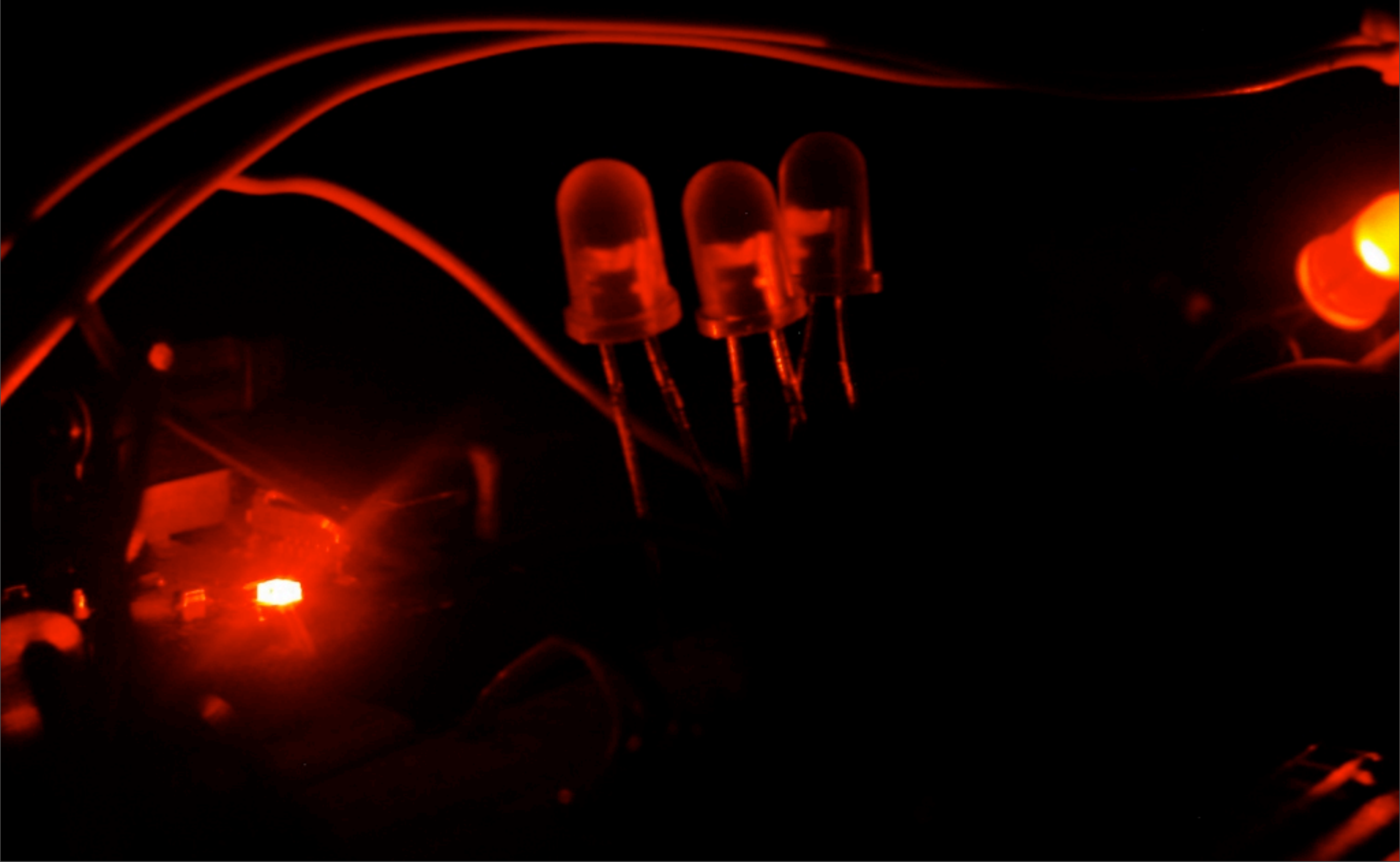
Urban Canyon Effect

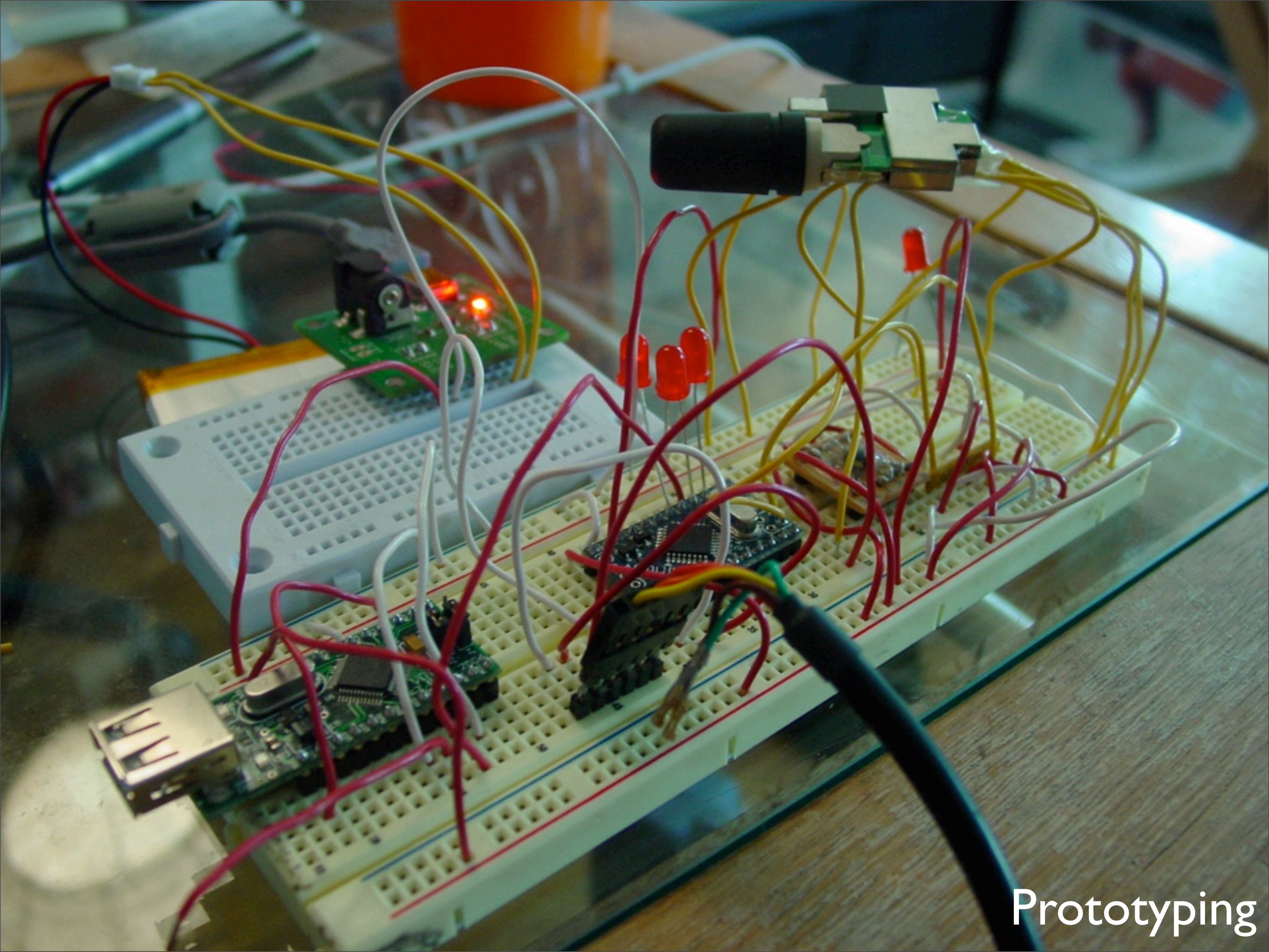
Global Positioning System



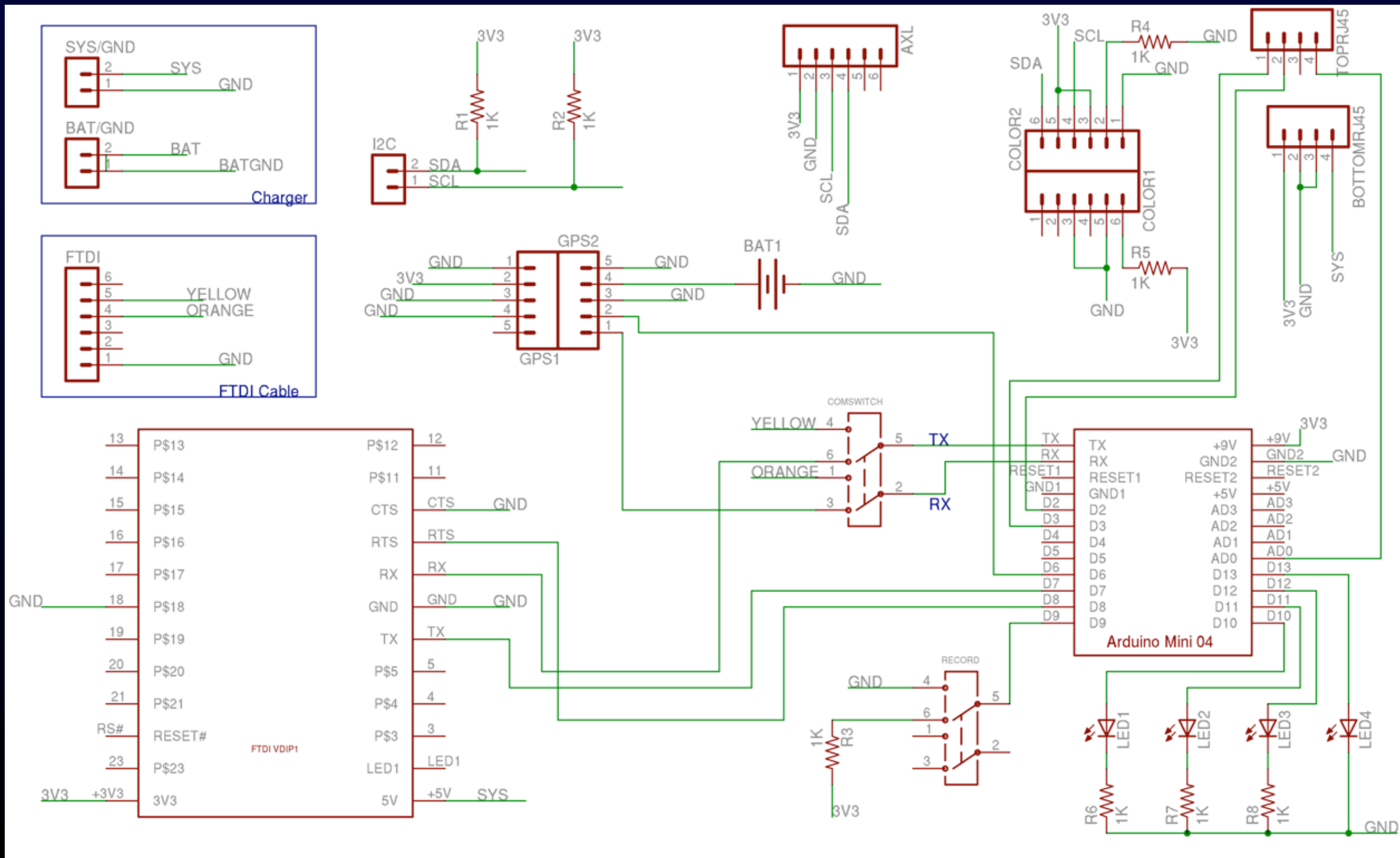
(My Apartment is NOT in the Atlantic Ocean.)

Hardware

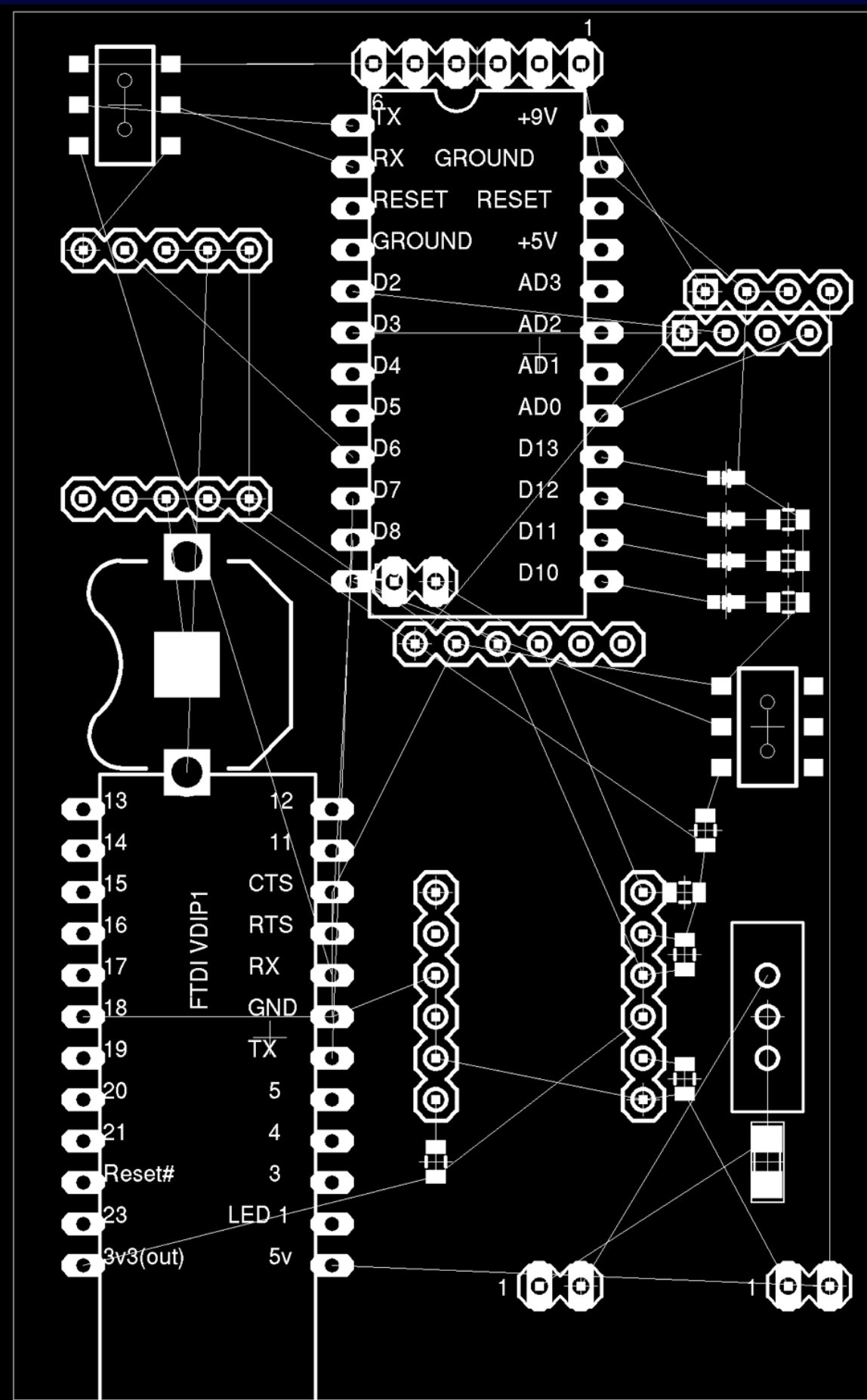




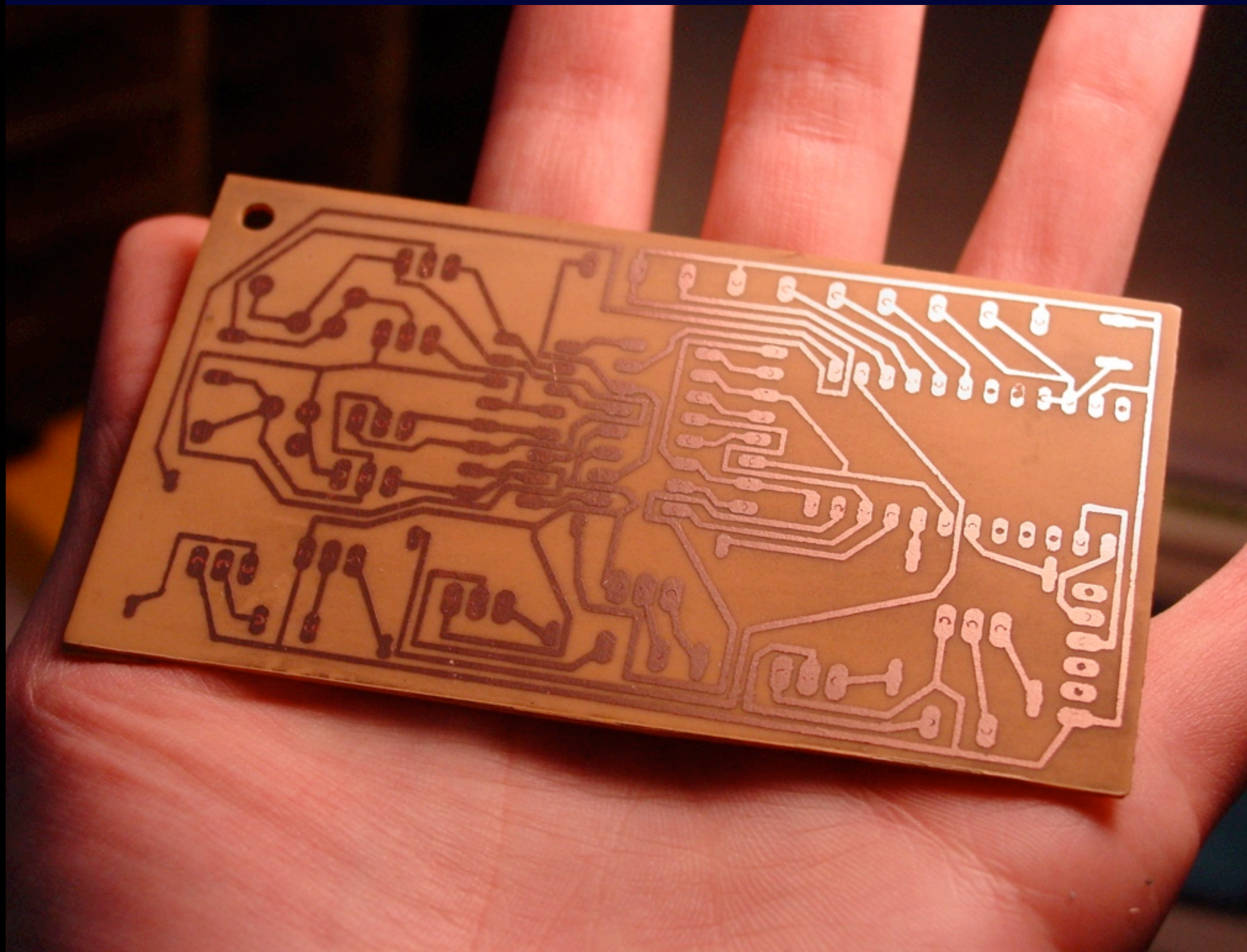
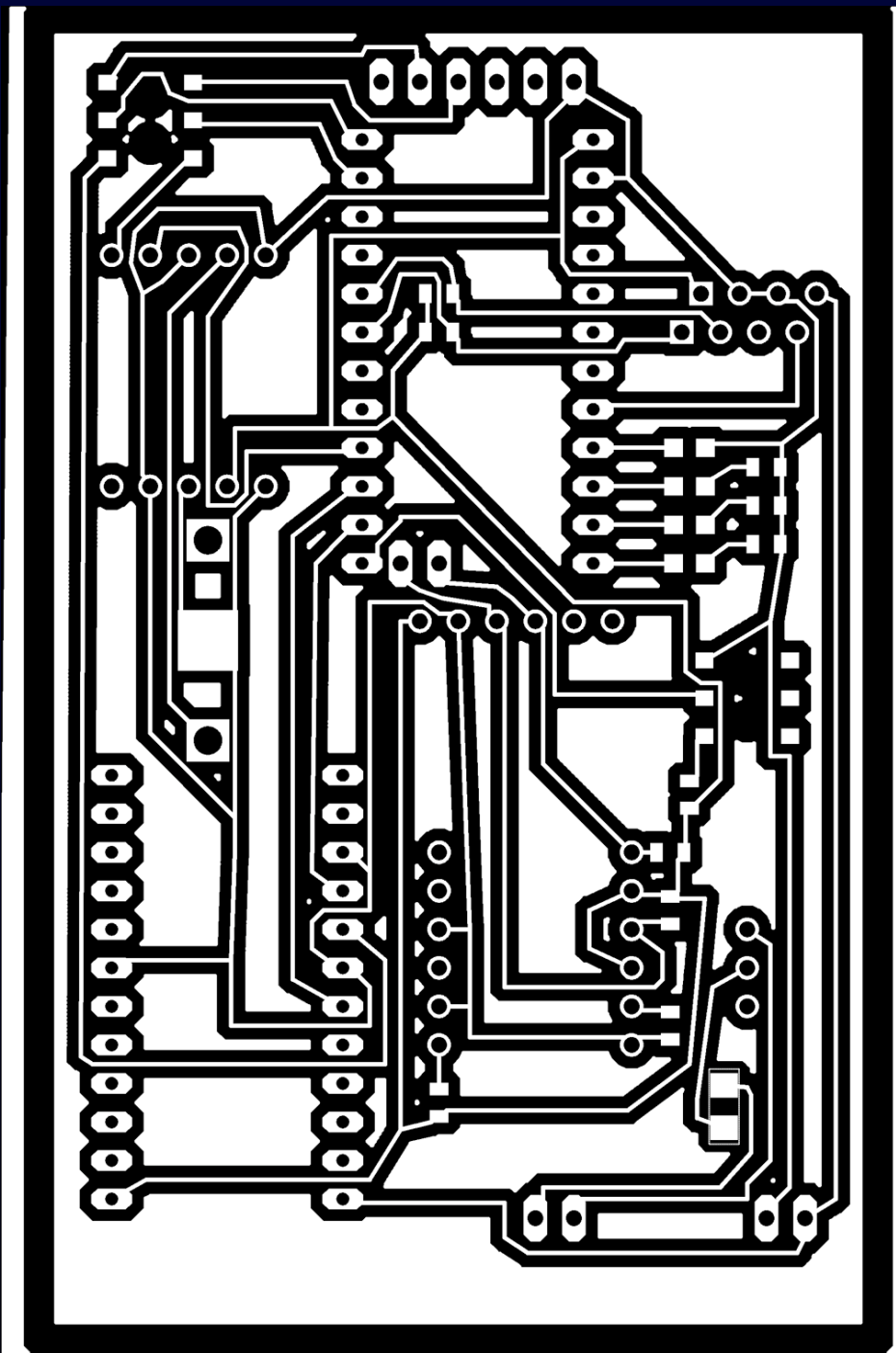
Prototyping



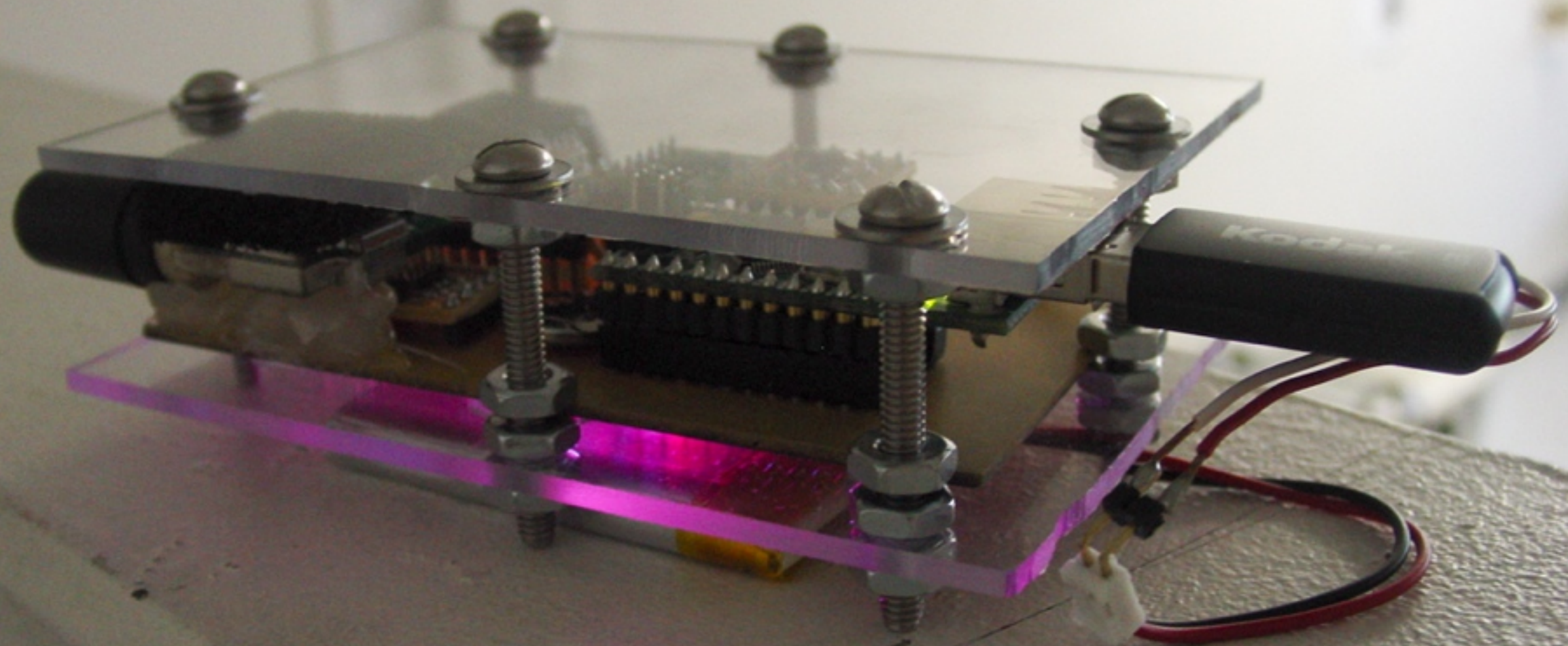
Schematic



Layout

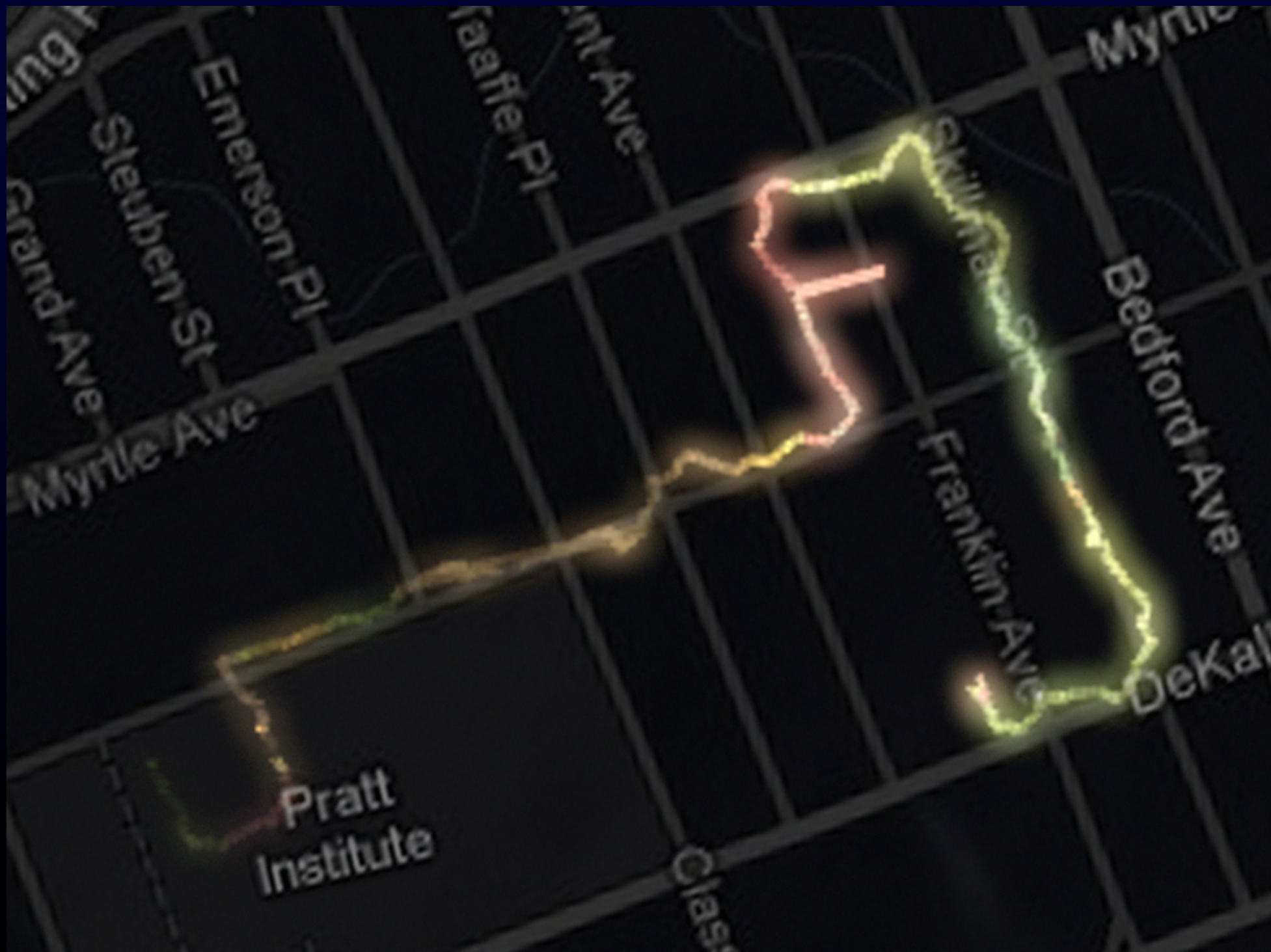


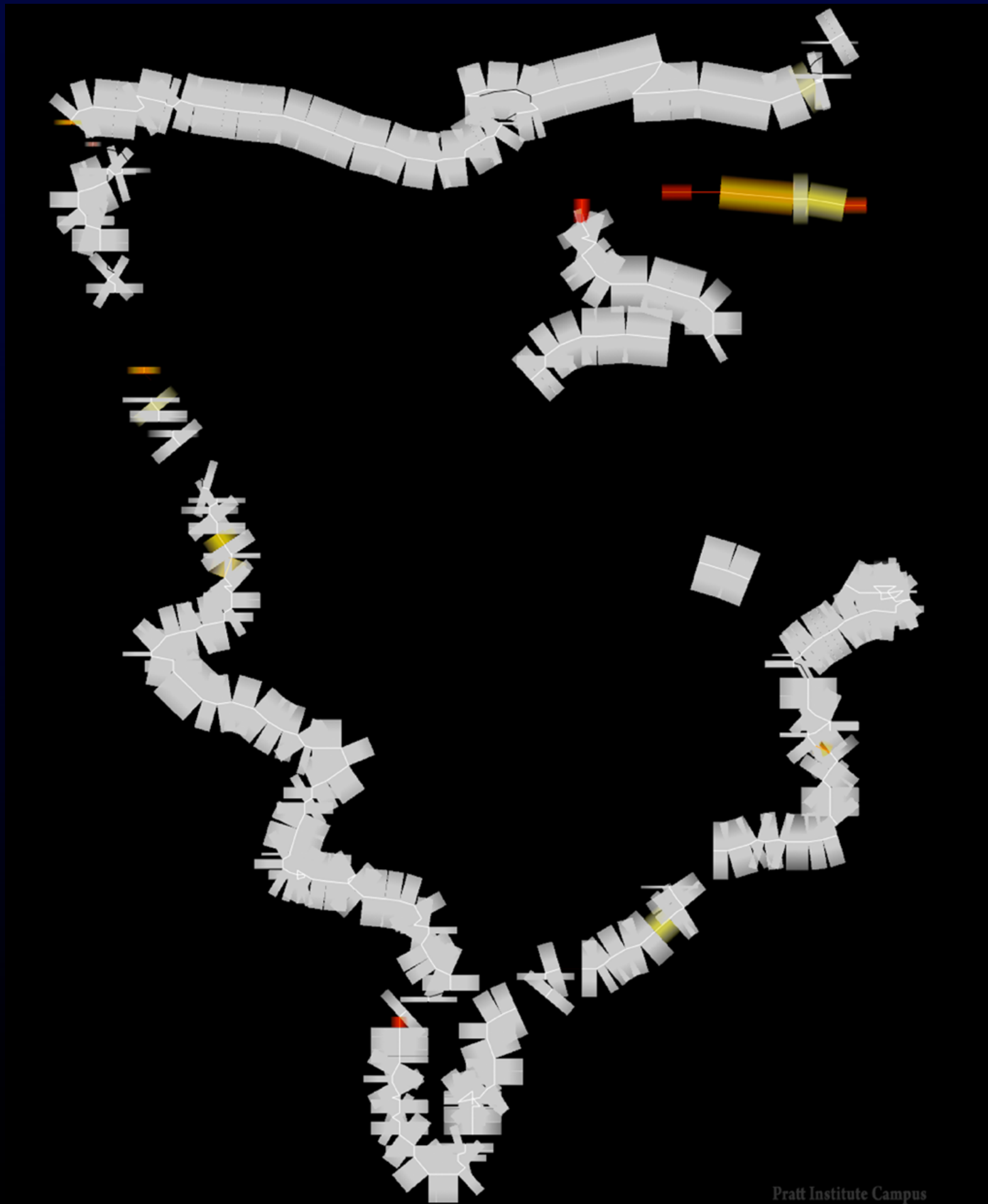
Etching



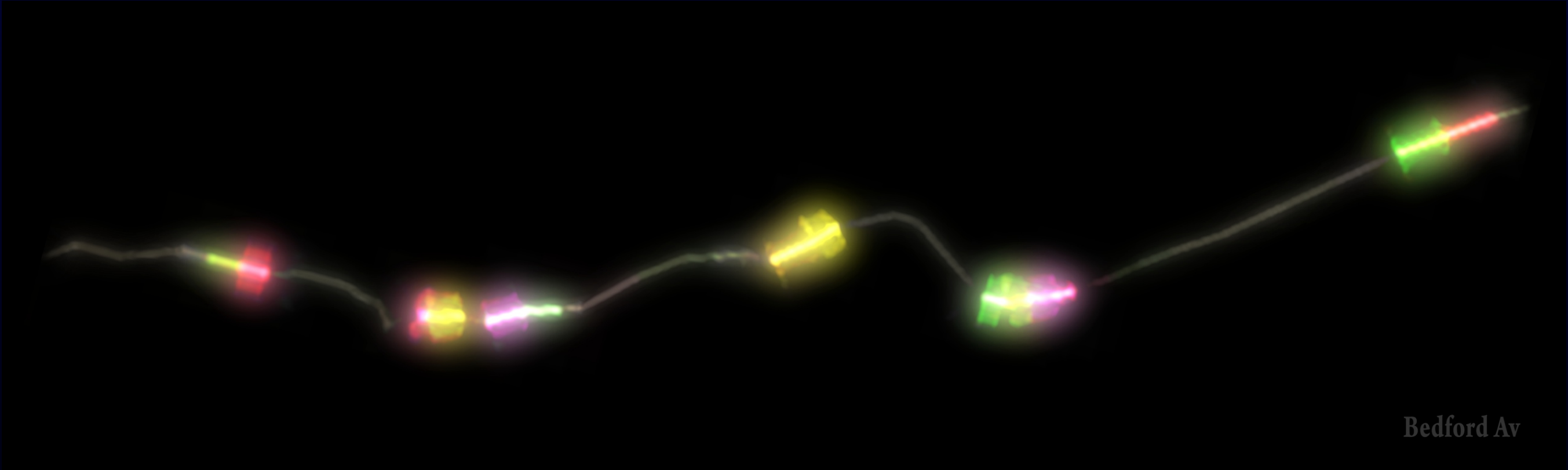
Final Board

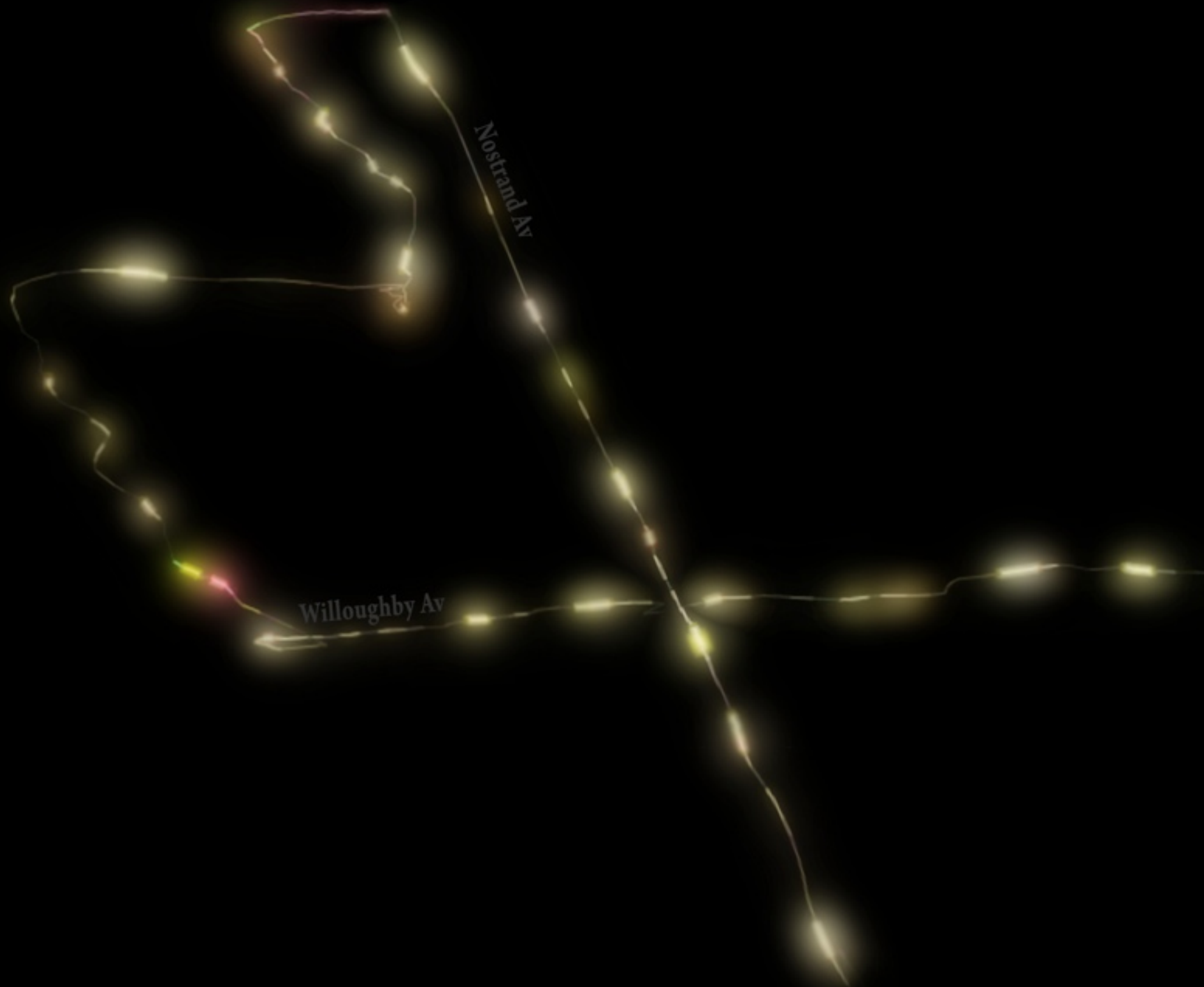
The Maps





Pratt Institute Campus



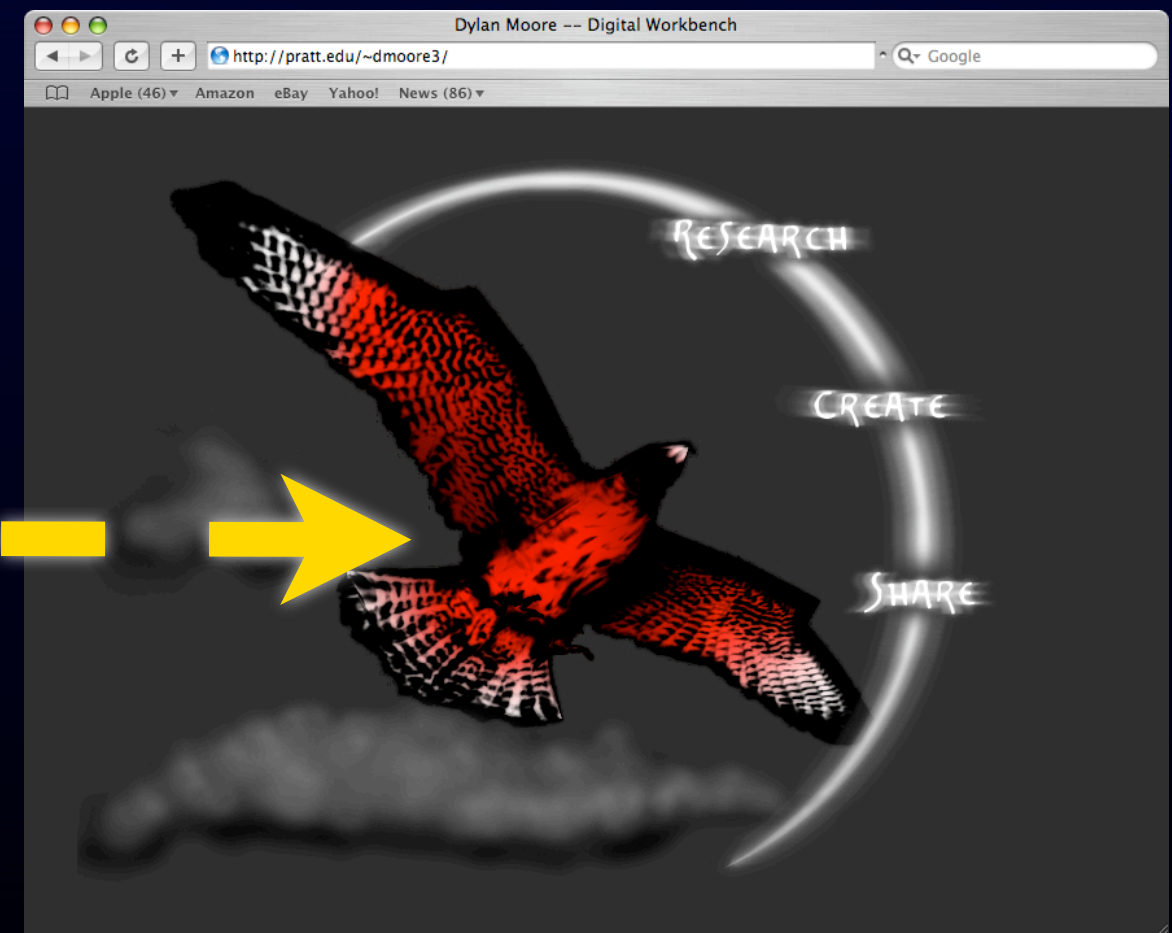
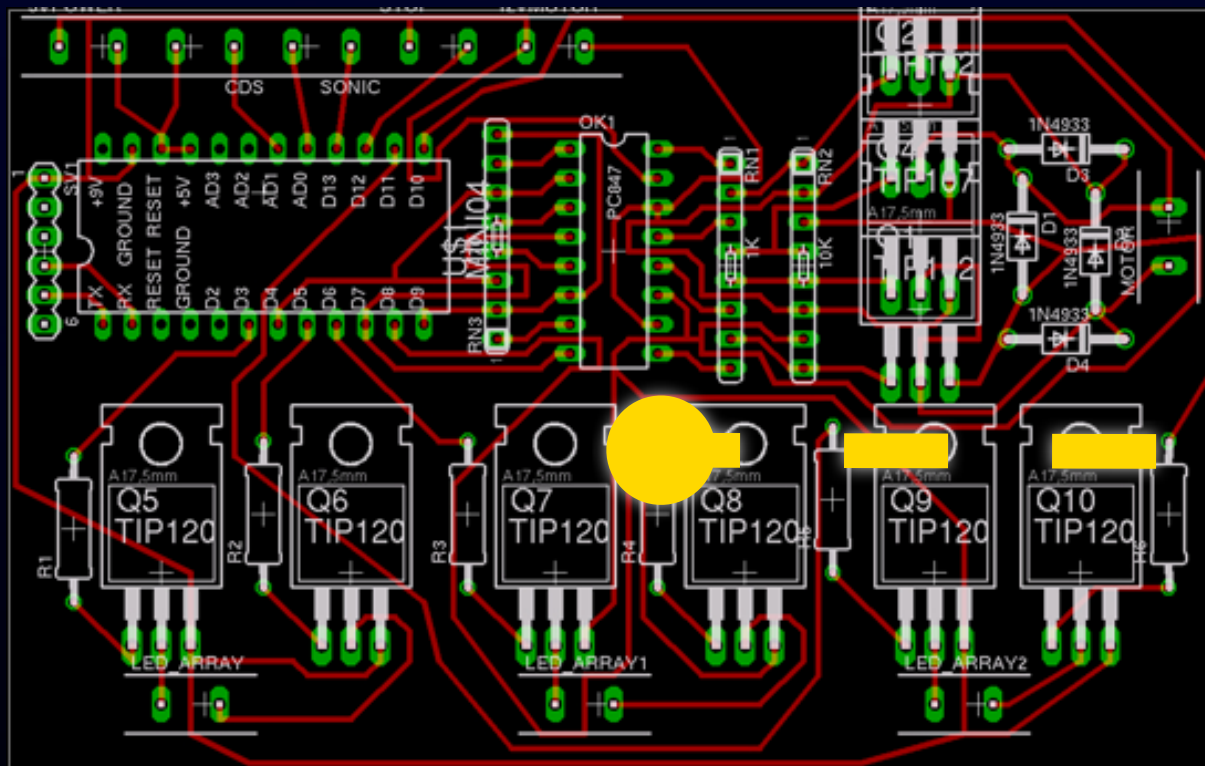


Recycled Materials and Sustainable Transportation

All electronics are ROHS compliant!



Open Sourced
**All electronics will be posted for free use and
modification--much like the Arduino!**





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