CAL POLY

CALIFORNIA POLYTECHNIC UNIVERSITY

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MASTERS THESIS

Artificial Neural Network-Based Robotics

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Chapter 1

LaTeX Usage

1.1 Figures and Ref

This is where I introduce stuff. See Figure 1.1.

Figure 1.1: Pad thai

1.2   Math

$$f(x) = x^2 \tag{1.1}$$

This is an equation that we don't want to number:

$$f(x) = x^2$$

Here's an in-line equation: $f(x) = x^2$.
Here's an aligned equation: Aligns at the &.

$$1 + 2 = 3$$
$$1 = 3 - 2$$
$$f(x) = x^2$$
$$g(x) = \frac{1}{x}$$
$$F(x) = \int_b^a \frac{1}{3}x^3$$
$$\frac{1}{\sqrt{x}}$$

$$\begin{bmatrix} a & \lambda \\ c & d \end{bmatrix}$$

1.3   Citations

Random citation [1] embeddeed in text.
  Random citation [2] embeddeed in text.
  Random citation [1] embeddeed in text. [3] [4]

1.4   Accents

Première $\dot{x}$

1.5   Dashes

The space is 3-dimensional.
  Read pages 3–4.
  I saw them—there were 3 men alive
  The temperature dropped to -3 degrees.

1.6   Lists

- First Level
  - Second Level
    * Third Level
      · Fourth Level

1. First level item

2. First level item

   (a) Second level item
   (b) Second level item
       i. Third level item
       ii. Third level item
           A. Fourth level item
           B. Fourth level item

1.7   Groups

will produce a paragraph that is four (this
is an easy mistake to make).

1.8   Code highlighting

```python
class MyClass(Yourclass):
def __init__(self, my, yours):
bla = '5 1 2 3 4'
print bla
```