Adputer Inc.

Manifold:

Create a New Physical World

from Digital Algorithms.

White Book

April 2018

1. INTRODUCTION

- Adputer Inc. is a digital model designer and media solution provider.

- Founded on May 2008 in Canada.

2. BUSINESS

3D Model Generation for Additive Manufacturing
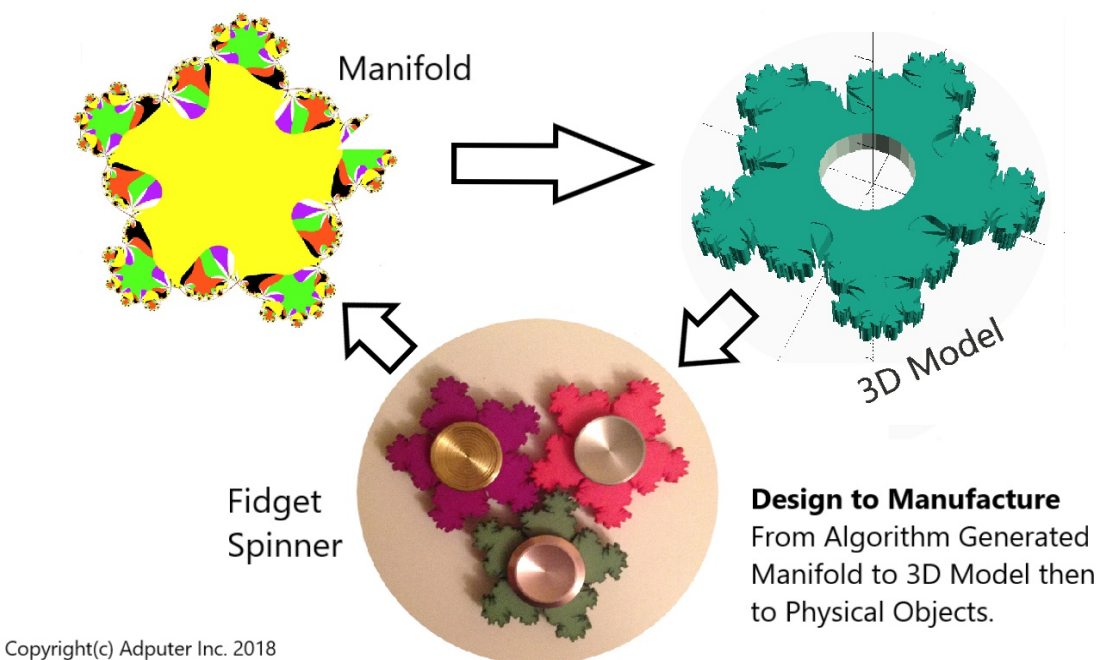Manifold Generator, Model Builder, 3D Printing Viewer

Computer Vision Camera and Applications
Night Vision Camera

Digital Signage for Media Advertising
Adputer™Player, Adputer™ Display, Adputer™ Network, Adputer™ Center.

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3. PERSPECTIVE

- ## Industrial Design

is the professional practice of designing products. Manifold is the geometric object generated by Math formula and algorithm. Machine Design is the feature of manifold generation which is unlike humans' design from sketch to final product.

Manifold

3D Model

Fidget Spinner

Design to Manufacture
From Algorithm Generated Manifold to 3D Model then to Physical Objects.

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- ## Advanced Manufacturing
  uses innovative technology to improve products or processes.

  - **Products**: with high levels of design; Technologically complex products; Innovative products; Reliable, affordable, and available products; New more exciting products; Products that solve a variety of society's problems.

  - **Processes**: Computer technologies; Rapid prototyping (additive manufacturing); High Precision technologies; Automation; New industrial platform technologies (composite materials); Ability to custom manufacture; Ability to manufacture high or low volume (scalability).

  - **Management**: Quality controls; Supply chain integration; Advanced Planning and Scheduling.

- ## Industry 4.0
  Cyber Physical System by Germery

- ## Made in China 2025
  IoT by China

- ## Advanced Manufacturing Supercluster
  Advance Manufacturing in Canada
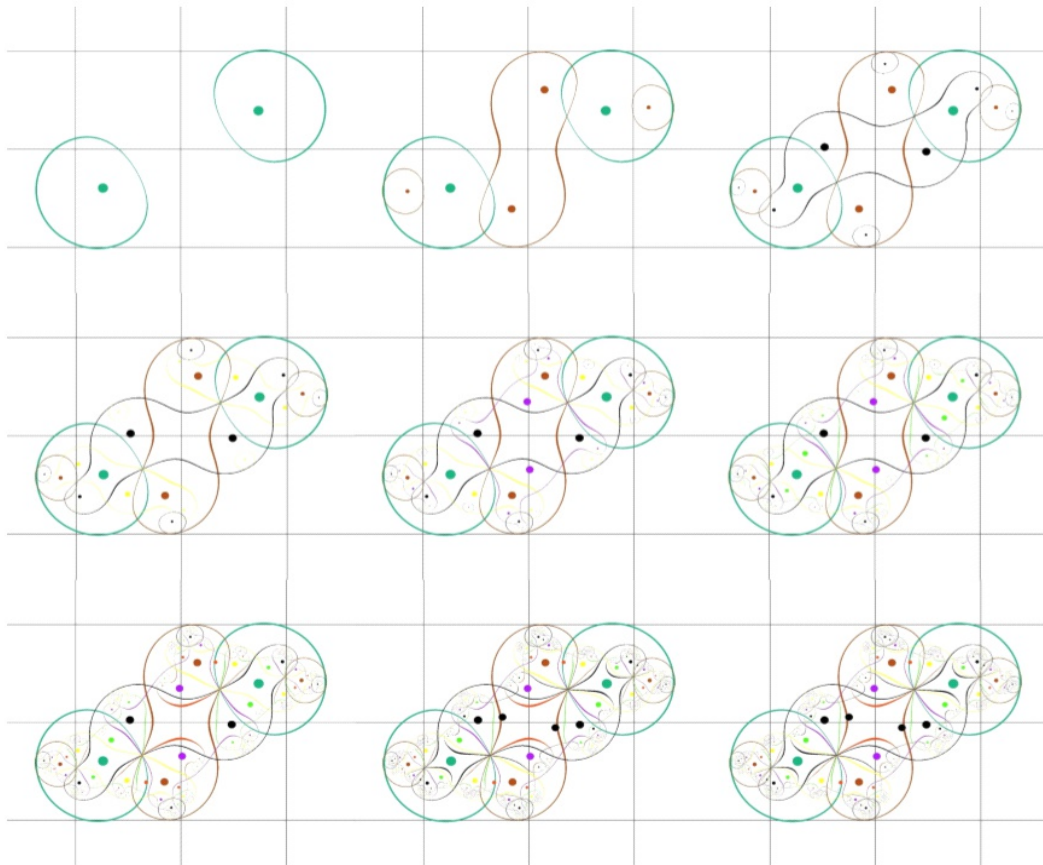
4. INNOVATION

MANIFOLD

3D Models Generated

by Algorithms

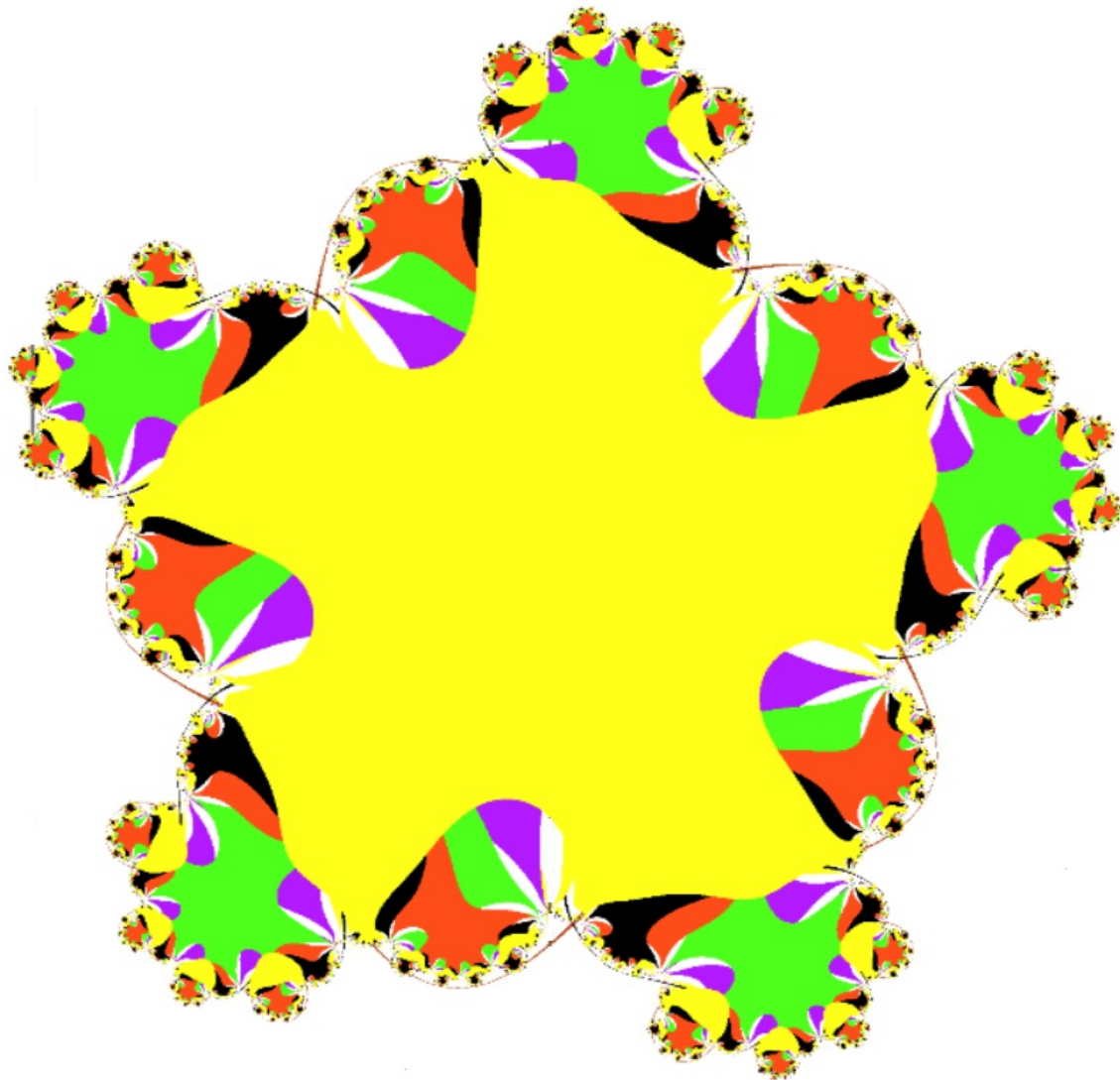# for

Industrial Design

and

Additive Manufacturing

Theory

Math in algebric geometry, dynamical system;
Physics in statistical physics; **Computer** in algorithm, graphics, cloud, blockchain;
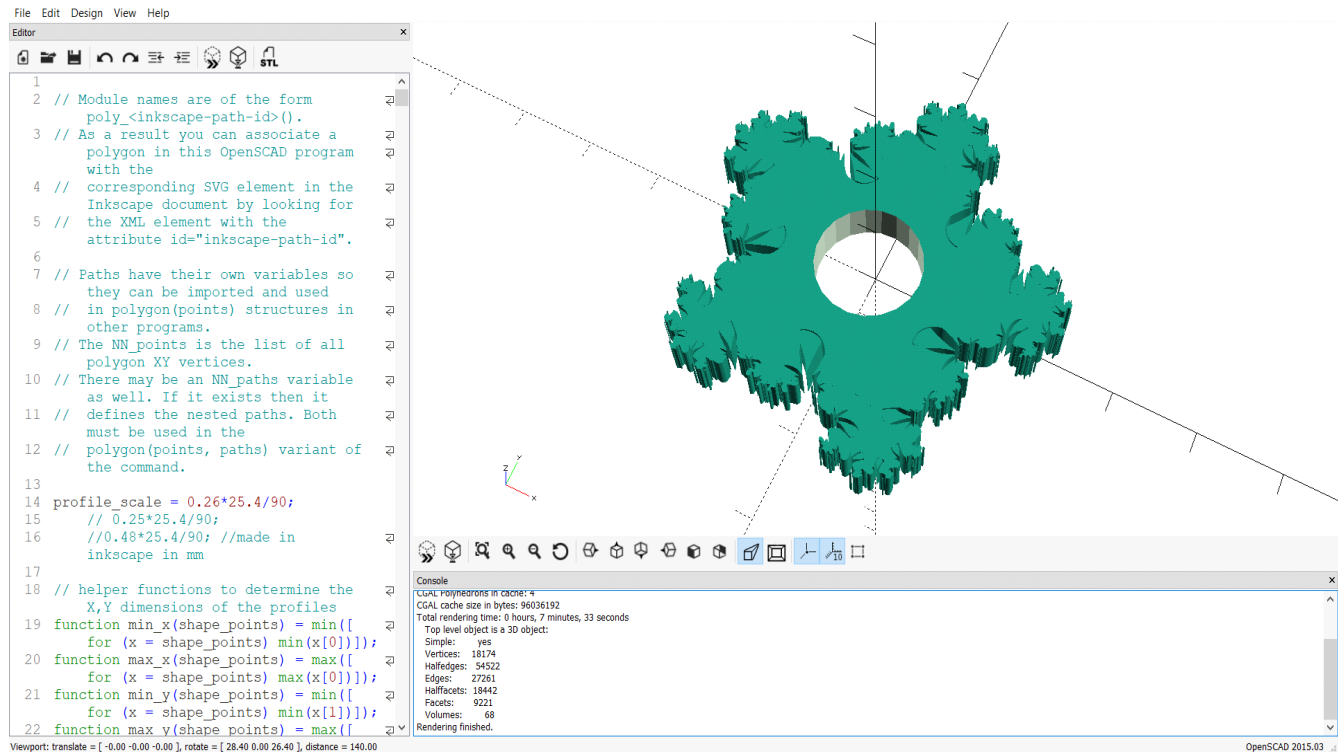**Manufacture** in 3D printing, SLS, waxing, casting

• **Process**

A formula and an algorithm is designed and implemented by a programming language, executed in a software we invented to generate a manifold.

Several software are applied to modify and compose 3D model as design required. Then 3D model is rendered for 3D printing preview.

The finished 3D model is send to manufacture for 3D printing, CNC, casting. Completed 3D objects are listed on the online store for sale.

Approach

Algorithm, Model, Receipe

The algorithm generated 3D model is like a receipe for cooking food.

IP, Registration, Security, Blockchain

Each 3D model is an IP asset. By using blockchain technology we can register and protect IPs in digital security method.

Software Toolkits Upgrade

We developed an innovative software to make this possible. We are going to continue upgrade and make a new version of the software.

Streamline Design and Production

We need to integrate several software to streamline the design procedure. To make an automation from designing, making, verification, to final sales, the new innovation of processing is required.

Mass Production Technologies

To reduce cost and satisfy large volume demands, methods such as mold design, 3D printing, waxing, casting may need approach.

Various Materials

Plastic, metal, and other materials need to try and see to find best products and effects.

5. PRODUCTS

Fidget Spinner – various models, shapes, materials

6. MARKET

- ## Category

    Toys - fidget spinner,

    Jewelly - ring, gold, silver, copper, wax

    Arts - painting

    Utility - eye glass frame,

- ## Outside Canada

    United States – largest market

    Europe – developed market

    Middle East – possible large market

    Asia – large market

    South America – developing market

    Africa – potential market

7. PARTNERS

- **Etsy** - famous professional store, professional customers, headquarter in US

Amulet Spinner

US$16.03

Ask a question

Primary color

Select a color ▼

Quantity

1 ▼

Add to cart

Overview

- Handmade item
- Materials: Nylon body, Stainless steel caps, Brass caps, Aluminum alloy caps, Metal gift box
- Favorited by: 2 people
- Gift message available

This shop accepts Etsy gift cards

Shipping

Made just for you. Ready to ship in 1–2 weeks.

From Canada

US$5.61 shipping to Canada, L3S 2N4

♡ Favorite   ☰ Add to ▾

Description

An amulet spinner with five poles and self-similar shapes in fine details. special features: