WALL CLIMBING

EXPANSION & CONTRACTION

2D SNAP CONNECTION

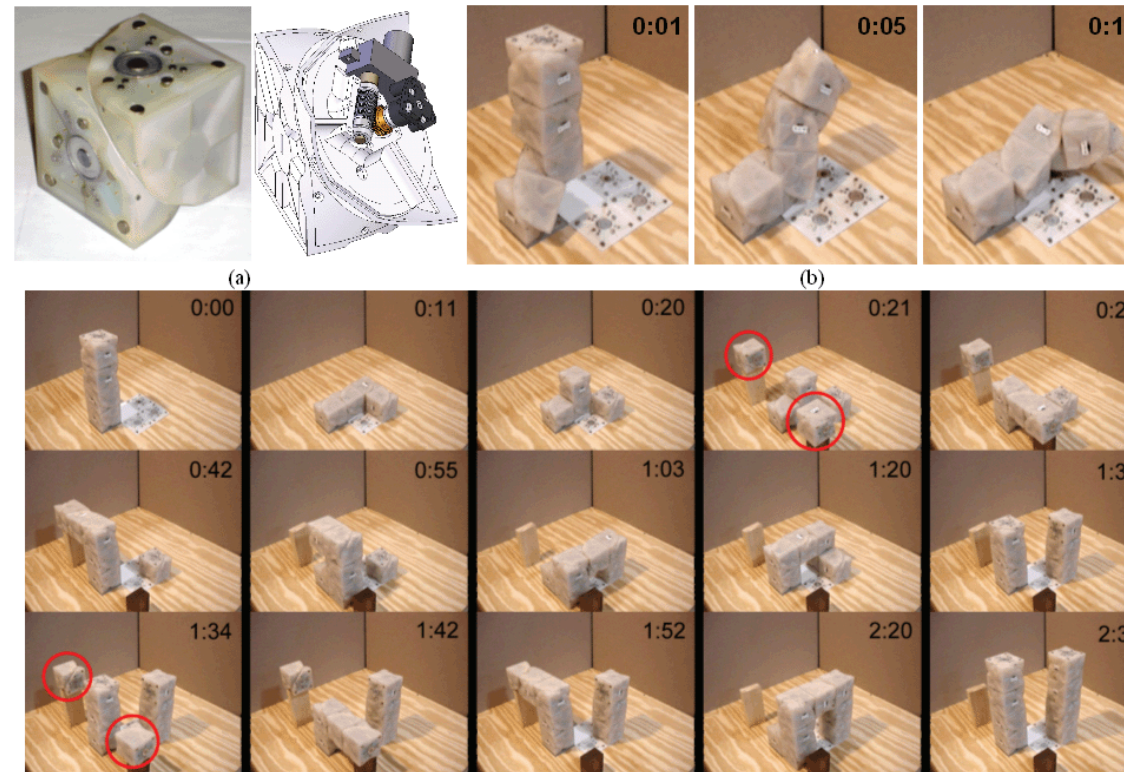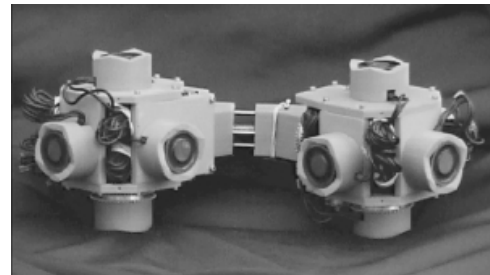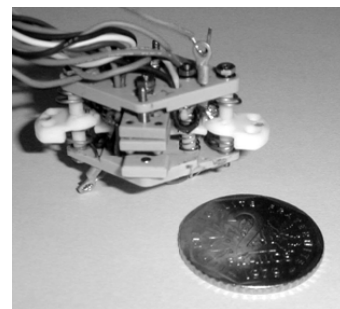TOWER MOLECULES

Added Twist DOF

Holding Hands

INTERNAL ROTATION & MAGNETIC CONECTION
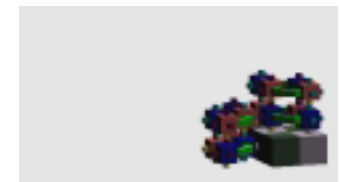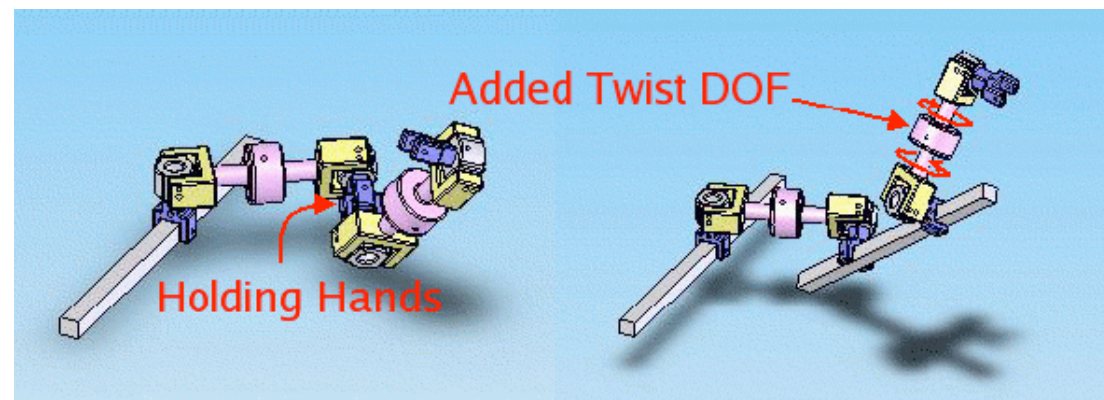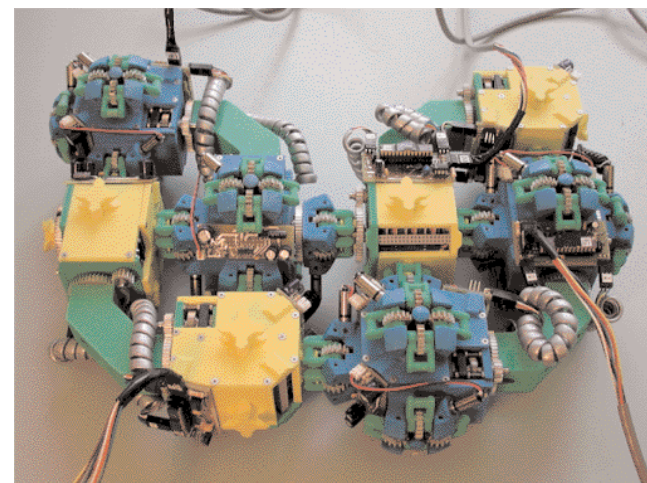
LINEAR CHAIN STRUCTURES
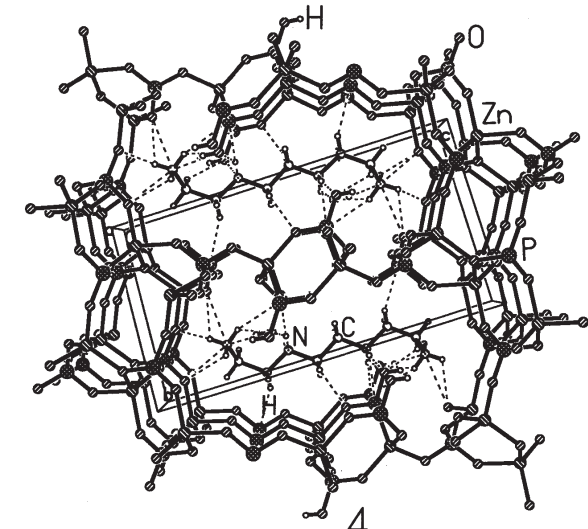
THE STRUCTURE OF A PROTEIN

Proteins are made by ribosomes:
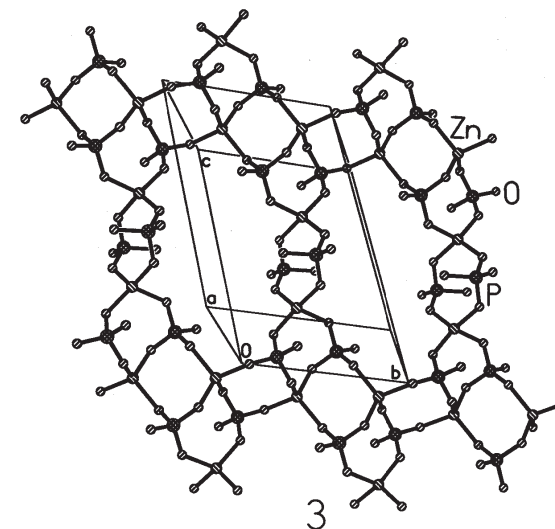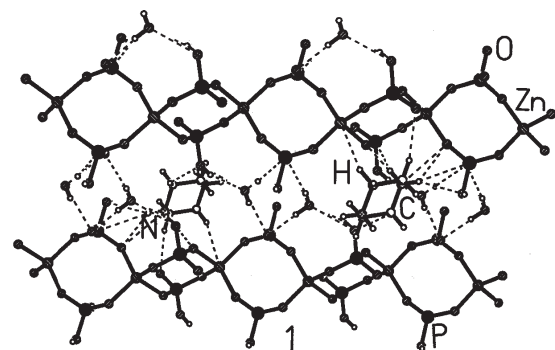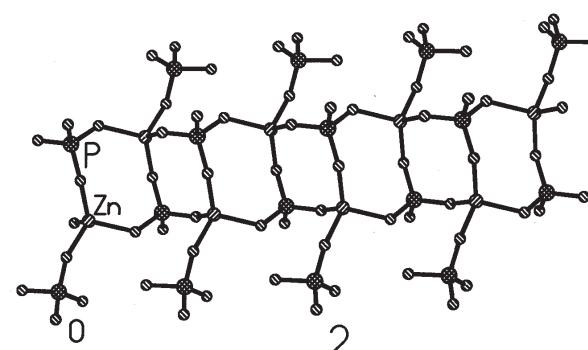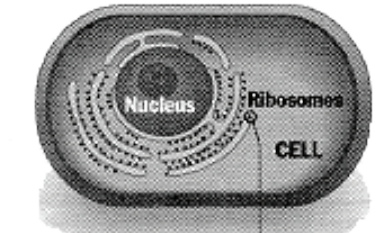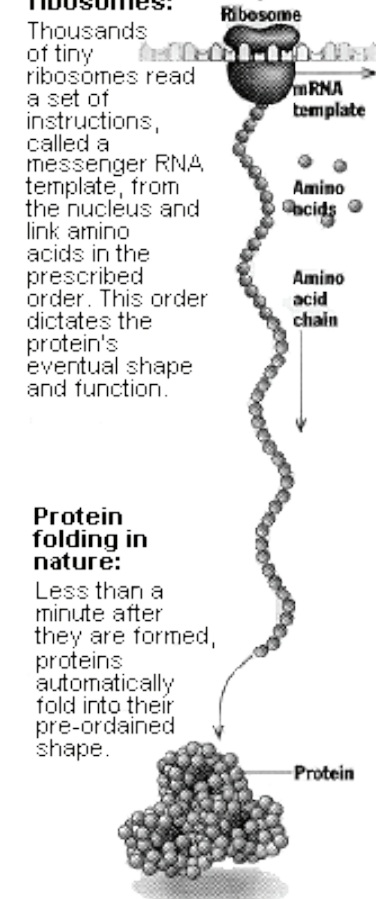Thousands of tiny ribosomes read a set of instructions, called a messenger RNA template, from the nucleus and link amino acids in the prescribed order. This order dictates the protein's eventual shape and function.

Protein folding in nature:
Less than a minute after they are formed, proteins automatically fold into their pre-ordained shape.

Proteins come in many shapes:
The shape of the protein gives it its function. Some transport molecules around the body. Others fit in "receptors" to turn processes on and off. There are thousands of different proteins, and each type has its own specific function.
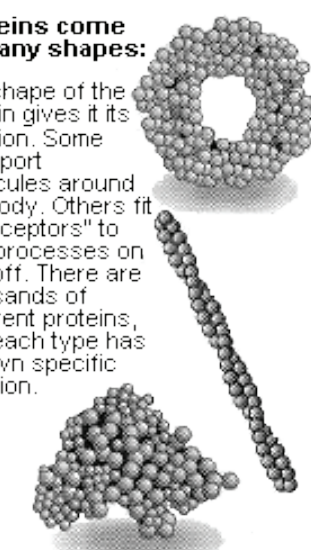
PROTEIN FOLDING

ACTIVE ELEMENTS

MIT : How to Make Something that Makes (Almost) Anything

BOARD TITLE:
Programmed Intelligence
Existing Techniques

BOARD #:
1/2

GROUP/DESIGNER'S NAME:
Skylar Tibbits
TOPIC :

CLIMBING SCENARIOS:
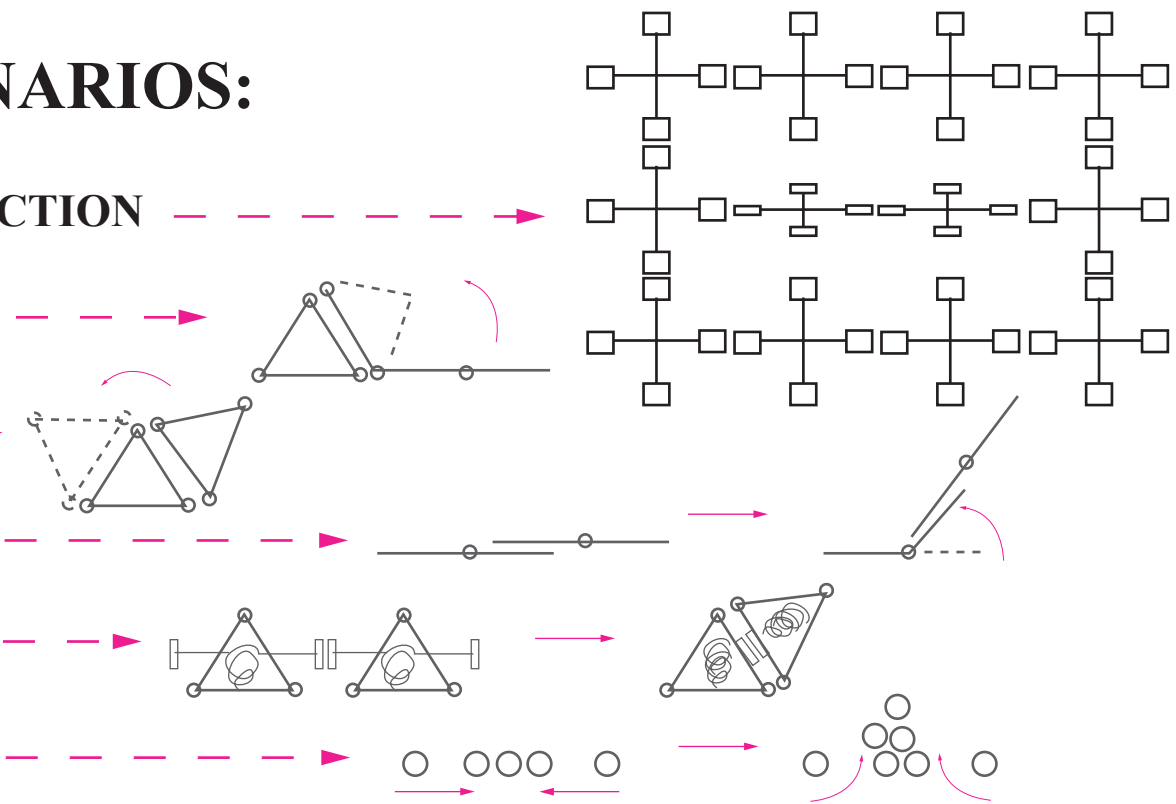
-EXPANSION & CONTRACTION

-UNROLL & REROLL

-JOINT FLIPPING

-FOLDING/PIVETING

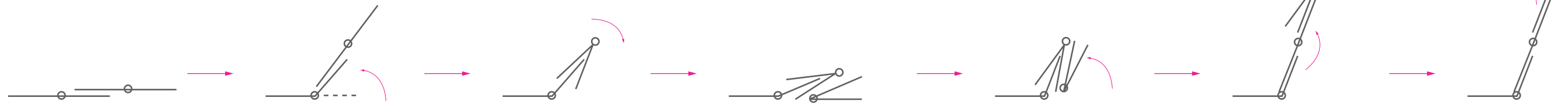-PROTEIN TENSIONING

-LAYERING

ELEMENT GOALS:

-FIND CORRECT NEIGHBOR (M/F)

-CLIMB HIGHER

-STABILITY

-SPATIAL GOALS (SQ. FT, ENTRY/EXIT)

-RECONFIGURABILITY
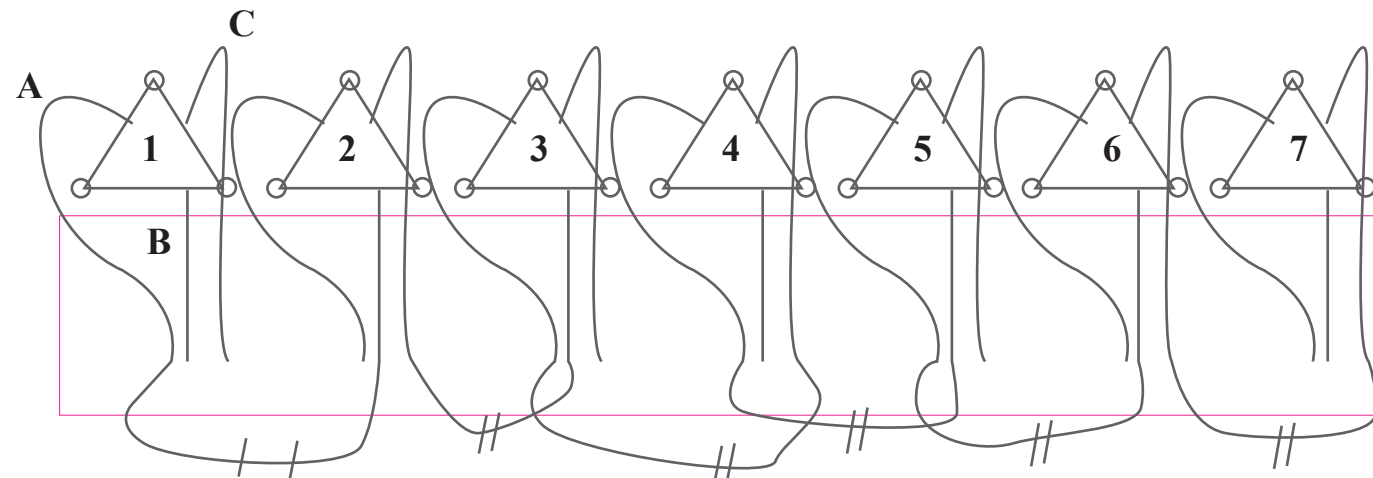
FOLDING SCENARIO

FINDING SCENARIOS:

-MOVEMENT(RANDOM) CONNECTION TO NEIGHBOR

-HAND PLACED

-DOCKING STATION

-CANNONS

-SENSING & TRACKING W/ MOVEMENT

1A – 2B – 2C – 3B – 3A – 4C – 4A – 5B – 5A – 6B – 6C – 7C

DOCKING SCENARIO

BOARD TITLE:

Programmed
Intelligence

Climbing & Finding

BOARD #:

2/2

GROUP/DESIGNER'S NAME:
Skylar Tibbits

TOPIC :