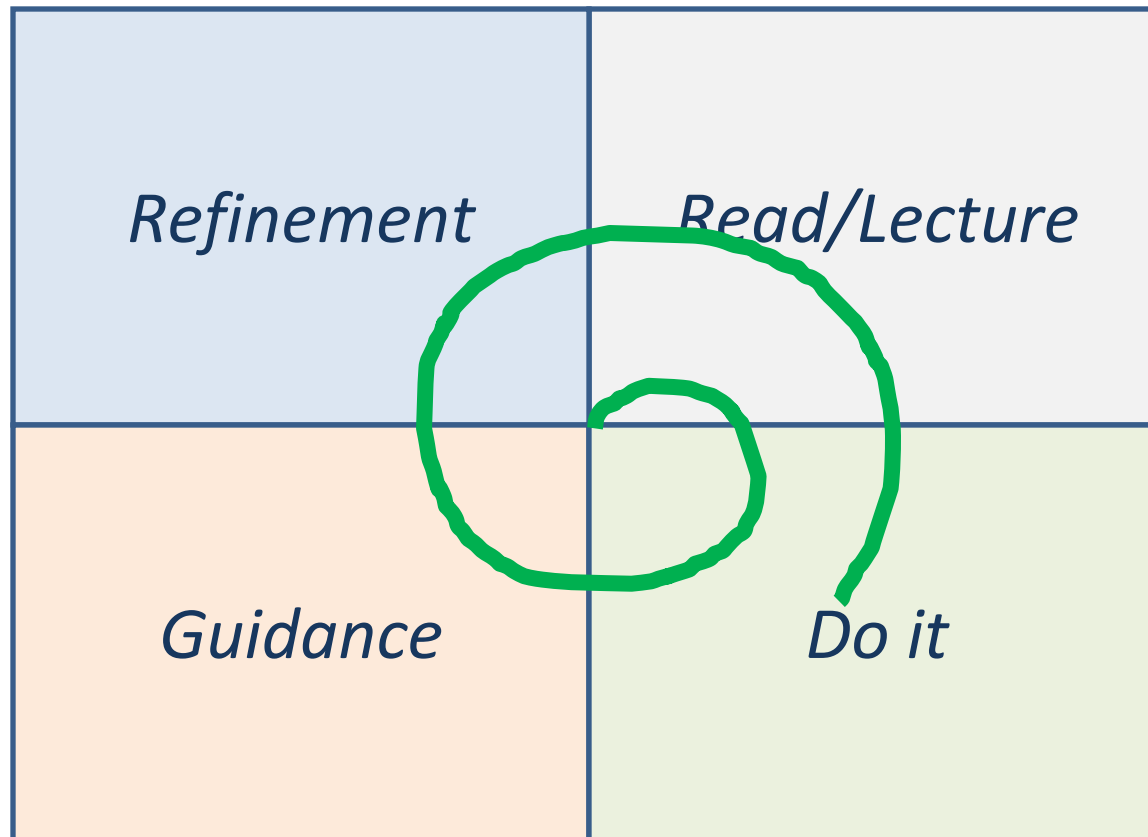
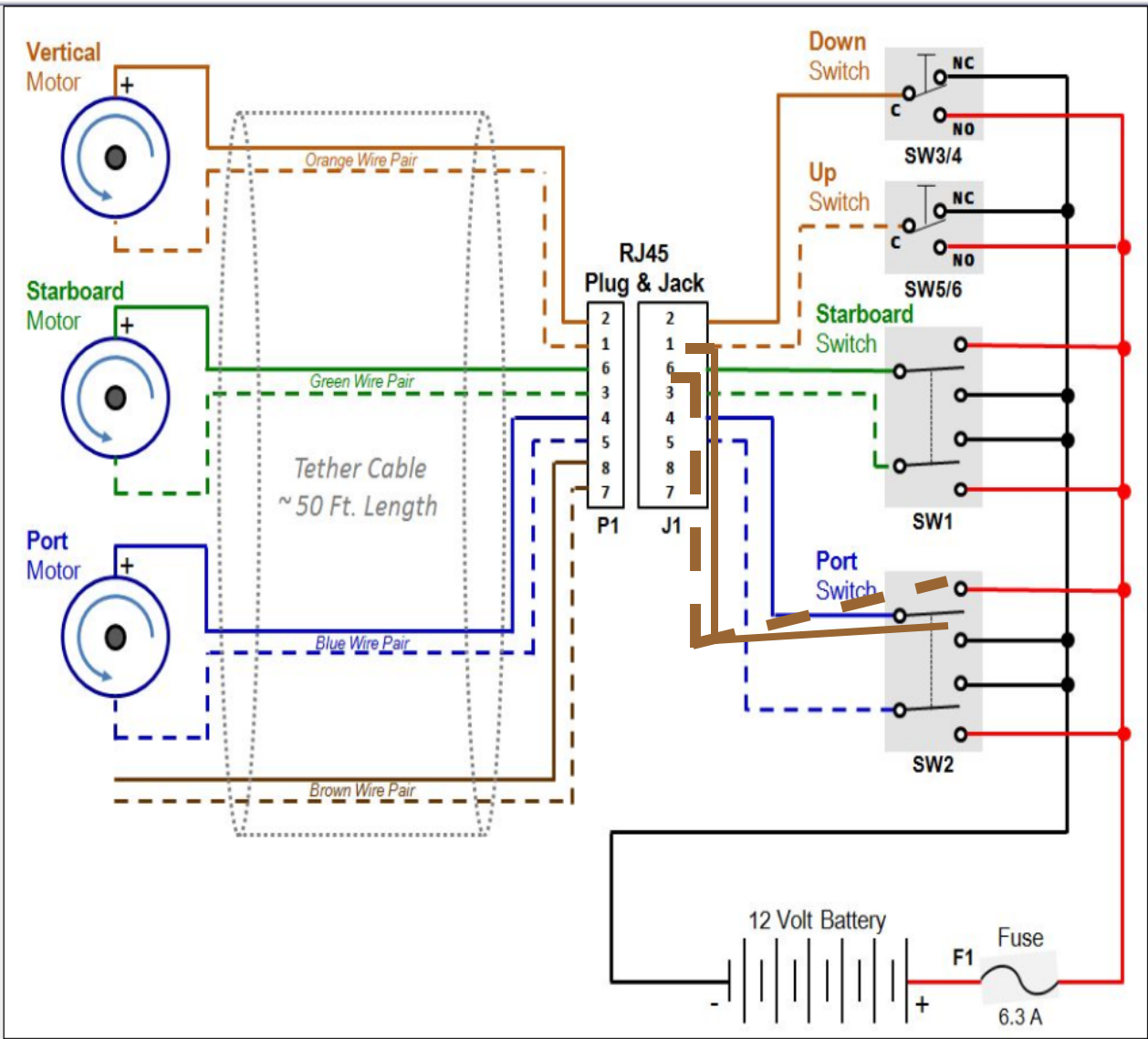




Teaching Process

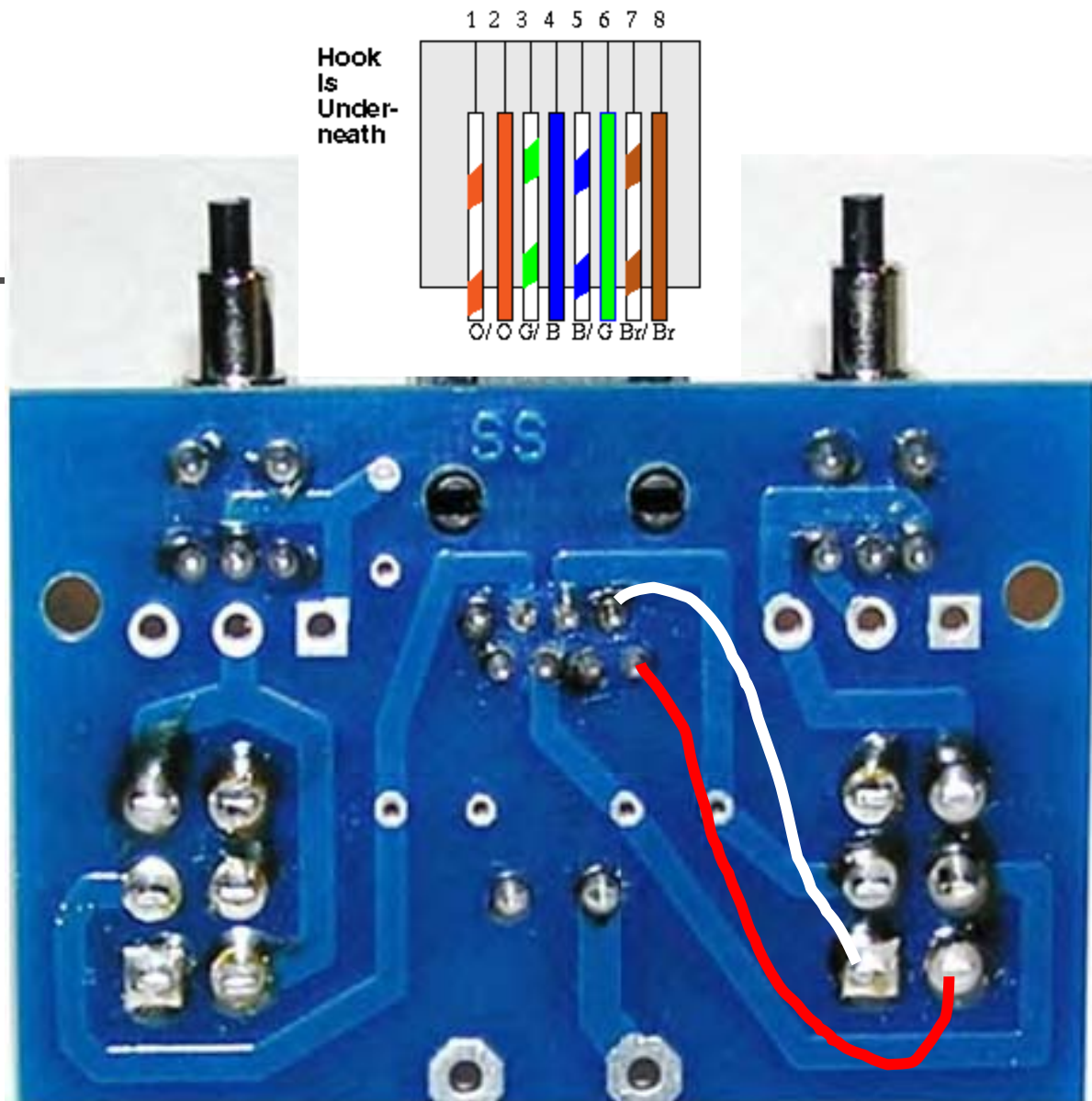
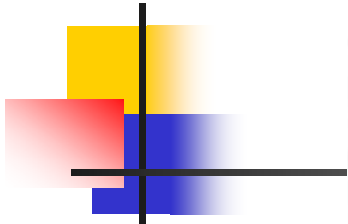




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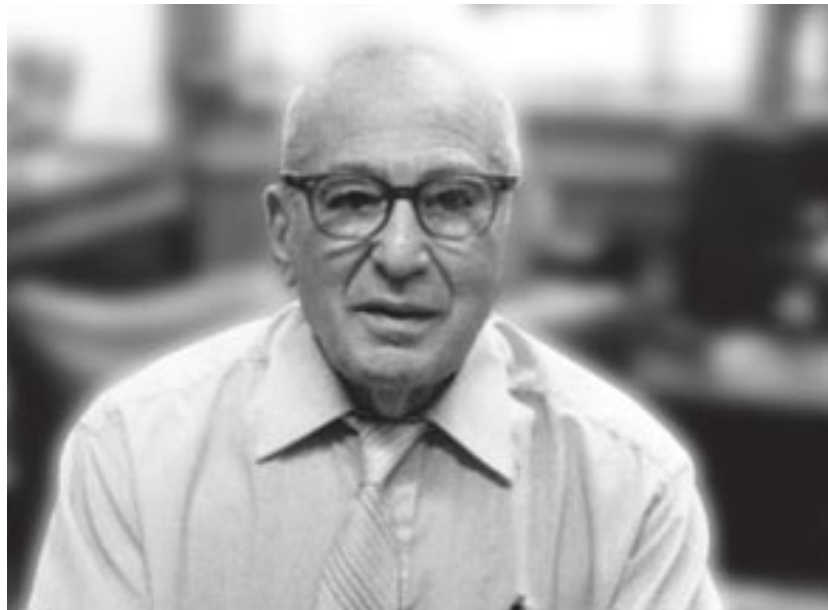


What is a Mentor?

- Mentor: a trusted friend, counselor or teacher, usually a more experienced person.
- Some professions have "mentoring programs" in which newcomers are paired with more experienced people, who advise them and serve as examples as they advance.
- Today mentors provide expertise to less experienced individuals to help them advance their careers, enhance their education, and build their networks.



One of my Mentors



Marvin Camras

Illinois Institute of Technology (IIT) – Bridge Building Competition
IIT 500 – Car Building and Race
EE 383 Electronic and Electrical Circuits

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One of my Mentors

- **Marvin Camras** (1916–1995) was an electrical engineer and inventor who was widely influential in the field of magnetic recording.
- Camras built his first recording device, a wire recorder, in the 1930s for a cousin who was an aspiring singer. **Shortly afterwards he discovered that using magnetic tape made the process of splicing and storing recordings easier.**
- Before and during World War II Camras' early wire recorders were used by the armed forces to train pilots. They were also used for disinformation purposes - battle sounds were recorded and amplified, and the recordings placed where the D-Day invasion was not going to take place. This work was kept secret until after the war.
- In June 1944 he was awarded US Patent number 2351004[1], titled "Method and Means of Magnetic Recording". In all, Camras received more than **500 patents**, largely in the field of electronic communications.
- Camras received a bachelor's degree in 1940 and a master's degree in 1942, both in electrical engineering, from Illinois Institute of Technology (IIT) . In 1968, the institution awarded him an honorary doctorate.
- **In recognition of his achievements, he received the National Medal of Technology award in 1990.**



Purpose of this Mentorship

- Humans are visual creatures
- Cultivation of Imagination
 - “True sign of intelligence is not knowledge, but **imagination** .”
Albert Einstein
- Concepts vs. Techniques and Tools ?
- What we **do** defines us.

Formula for Achievement

$$(\text{Attribute} \times \text{Time})^M = \text{Achievement}$$

- **Attributes** are your gifts:
 - Physical
 - Mental
 - Social
- **Time** cannot be manipulated
- **Motivation** can impact your outcome geometrically

**MOTIVATION CAN
BE CHANGED IN A
HEART BEAT**





Attributes for Success

1. Strong sense of Purpose
2. Seek out mentors
3. Strength of vision and goal
4. Optimistic
5. Self-assurance – confidence
6. Plan and organization in priority
7. Ability to get needed skills
8. Being observant
9. Love what you are doing
10. Patience