

In the name of GOD

# **Aircraft Design 2**

## **Assignment 1**

### **Asuka Team**

#### **Team Members:**

Parsa Maleki

Amin Heydari

Javad Salimi

Ahlan Ashgarf

Session Date:

1403/07/09

Delivery Date:

1403/07/14

Working Hours:

4h 26m

### Caution:

This report was written during our discussions about each other's Capabilities, also two personality test results are shown at the end of each teammate's section:

- 1) Personality Type: like INTJ, ENTP & ...
- 2) Alignment Test: like lawful good, neutral evil & ...

This test will not necessarily present the actual personality of each teammates, distraction, lack of time to think, stress and ... could affect this results, so corrections must be made such as providing the right time to do the test, testing in different websites. Due to the fact that we are not on different levels from each other, we have avoided choosing a chief designer, after a while he/she will be revealed based on the attempt and level of knowledge. The selected method for proceeding the path is Ring method.

## 1. Parsa Maleki

Team Member	Why I took Aircraft Design 2 course?
Attitude	<ul style="list-style-type: none"> <li>• Belief: It is an important course to me</li> <li>• Obligation: Learning detail design</li> <li>• Desire: Having a respectful team</li> <li>• Intention: Attending this course, monitoring my teammates</li> </ul>

Team Member	Why participating Aircraft Design Competition?
Attitude	<ul style="list-style-type: none"> <li>• Belief: My belief that one day I would create something to help solving a problem</li> <li>• Obligation: Do not let my teammates loss their hope, Keeping the team stable, competition comes first</li> <li>• Desire: 1st place in competition</li> <li>• Intention: Forming the team, review all I have learned before in aircraft design 1, help my teammates find their place in the team</li> </ul>

Skills	<ul style="list-style-type: none"> <li>• Working with solid works</li> <li>• Monitoring a teamwork</li> <li>• Working with Indesign</li> <li>• Ability to gain other's trust, make a reliable environment</li> <li>• Finishing a course with every important note written</li> </ul>
Knowledge	<ul style="list-style-type: none"> <li>• Aircraft Performance</li> <li>• Aircraft Design</li> <li>• Flight Dynamics</li> <li>• A brief study about "System Engineering" and "Decision Theory"</li> </ul>
Experience	<ul style="list-style-type: none"> <li>• Aircraft Design 1 teamwork</li> <li>• SSA teamwork</li> <li>• Mahan Air Intershipe</li> </ul>

Weakness	<ul style="list-style-type: none"> <li>• sensitive to ignore my attempts</li> </ul>
Strengths	<ul style="list-style-type: none"> <li>• being motivated</li> <li>• Disciplined in what I do</li> <li>• No matter what happens, I do what must be done</li> <li>• Pay attention to the details of personality, style and behavior</li> <li>• Feel responsible to my team</li> <li>• Having low wasted time</li> <li>• I never forget writing notes</li> </ul>

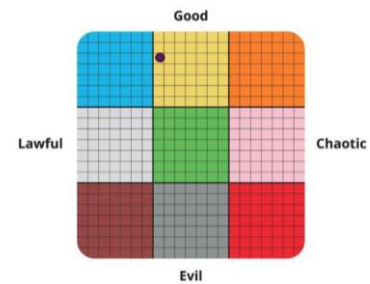
Expectation from my teammates

I expect all my team members to be loyal and respect the team and do as much as needed in the design process.

### Moral Alignment Test

Results:

Personality Test: ENFJ-T



You are 76.7% good, 26.7% lawful, making you neutral good.

## 2. Amin Heydari

Team Member	Why I took Aircraft Design 2 course?
Attitude	<ul style="list-style-type: none"> <li>• <b>Belief:</b> This lesson can help to form a team</li> <li>• <b>Obligation:</b> To participate in the competition, We need the knowledge of AD 2</li> <li>• <b>Desire:</b> To be able to finish the lesson of the first part of the airplane design and learn the AD2 process</li> <li>• <b>Intention:</b> Team formation, Maintain the team, Completing task on time</li> </ul>

Team Member	Why participating Aircraft Design Competition?
Attitude	<ul style="list-style-type: none"> <li>• <b>Belief:</b> It is necessary to summarize undergraduate courses and create a product up to the stage of preliminary design</li> <li>• <b>Obligation:</b> Gain knowledge and a good resume by competing</li> <li>• <b>Desire:</b> Winning the first place in the competition</li> <li>• <b>Intention:</b> Team formation, Maintain the team, Completing task on time, Learn the required programs, Learning the things needed to do the competition project</li> </ul>

Skills	<ul style="list-style-type: none"> <li>• Solid Works</li> <li>• Matlab</li> </ul>
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	<ul style="list-style-type: none"> <li>• Have the links with people the could help or advise in the project</li> <li>• Could Understand another people and could Treat them with respect</li> <li>• Analyzing different topics and putting them together</li> </ul>
Knowledge	<ul style="list-style-type: none"> <li>• Pass the courses with high score</li> <li>• Propulsion</li> <li>• Structures</li> </ul>
Experience	<ul style="list-style-type: none"> <li>• working with Dr. Ghorbaninan in the project and Dealing with different people</li> </ul>

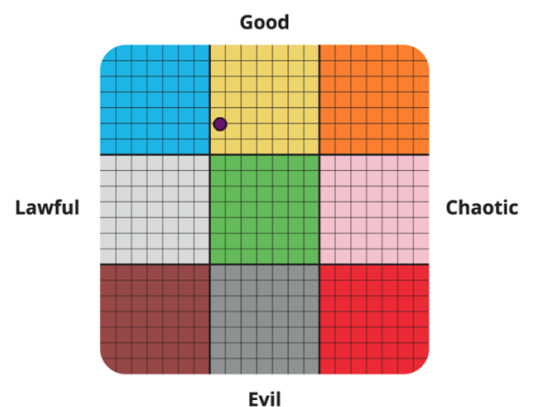
Weakness	<ul style="list-style-type: none"> <li>• The problems become clear to me quickly</li> <li>• I don't skip easy topics and go into details</li> <li>• Mathematics and its details are important to me</li> <li>• In the first view I seem stuffy</li> </ul>
Strengths	<ul style="list-style-type: none"> <li>• I try to deliver the complete project and the best project</li> <li>• I can bring peace to the team</li> <li>• Help team members get things done</li> <li>• I can check the route taken quickly</li> </ul>

Expectation from my teammates	Working with the best of themselves
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### Moral Alignment Test

Personality Test: ESTJ-A

Results:



You are 51.7% good, 26.7% lawful, making you neutral good.

### 3. Javad Salimi

Team Member	Why I took Aircraft Design 2 course?
Attitude	<ul style="list-style-type: none"><li>• <b>Belief:</b> I believe that aircraft design will consolidate all I've learned so far. I also believe that taking courses with Dr. Malaek will help me see the aerospace world from a new perspective.</li><li>• <b>Obligation:</b> I had to take a design course to fulfill degree requirements.</li><li>• <b>Desire:</b> I want to learn new ideas and concepts to improve my chances of winning the design competition.</li><li>• <b>Intention:</b> My intention is to form a team and maintain it until the end of the competition.</li></ul>

Team Member	Why participating Aircraft Design Competition?
Attitude	<ul style="list-style-type: none"><li>• <b>Belief:</b> Winning this competition will give me merit and a boost in confidence.</li><li>• <b>Obligation:</b> Since my grades aren't great, I feel obliged to win this competition to make up for them.</li><li>• <b>Desire:</b> I want to gain real-world experience in designing an aircraft from requirements to completion.</li><li>• <b>Intention:</b></li></ul>

Skills	<ul style="list-style-type: none"><li>• Programming</li><li>• OSINT (Open source intelligence)</li><li>• Data analysis</li><li>• Fast typing</li><li>• Knowing how to work with version control software</li><li>• Graphic design</li></ul>
Knowledge	<ul style="list-style-type: none"><li>• Aircraft Design</li><li>• Aerodynamics</li><li>• Computer Science</li></ul>
Experience	<ul style="list-style-type: none"><li>• I have experience from Aircraft Design I project, which was derailed after a while. I learned that working solo and not relying on teammates is not an effective approach.</li></ul>

Weakness	<ul style="list-style-type: none"><li>• I'm not very good at teamwork but I'm hoping to improve in this project.</li></ul>
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Strengths	<ul style="list-style-type: none"> <li>• Open to criticism</li> <li>• Persistent in my work, especially if something triggers me</li> <li>• I like to use unconventional and custom solutions to solve problems</li> </ul>
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Expectation from my teammates	I expect my teammates to prioritize this project as their highest priority and to strive for nothing less than first place.
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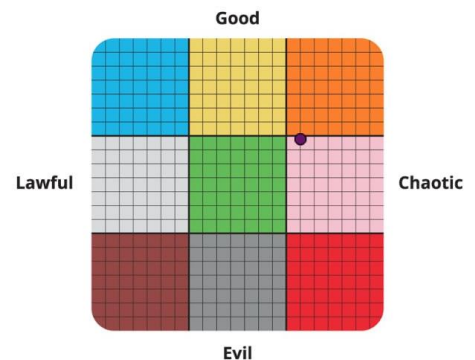
### Moral Alignment Test

Personality Test: INTP

Results:

Personality type: [Logician \(INTP-T\)](#)

Personality traits: Introverted – 83%, Intuitive – 91%, Thinking – 81%,  
Prospecting – 96%, Turbulent – 53%



You are 30.8% good, 43.3% chaotic, making you chaotic neutral.

## 4. Ahlam Ashgarf

Team Member	Why I took Aircraft Design 2 course?
Attitude	<ul style="list-style-type: none"> <li>• Belief: Taking this course will help me improve my skills and knowledge in aircraft design.</li> <li>• Obligation: My knowledge in aircraft design should be completed in order to be used for aircraft design competition.</li> <li>• Desire: Passing this course with a good grade which should be as a result of active presence and listening well.</li> <li>• Intention: Active presence and taking notes in order to learn more about aircraft design.</li> </ul>

Team Member	Why participating Aircraft Design Competition?
	<ul style="list-style-type: none"> <li>• Belief: Putting your skills and knowledge into practice makes you learn more and better.</li> </ul>

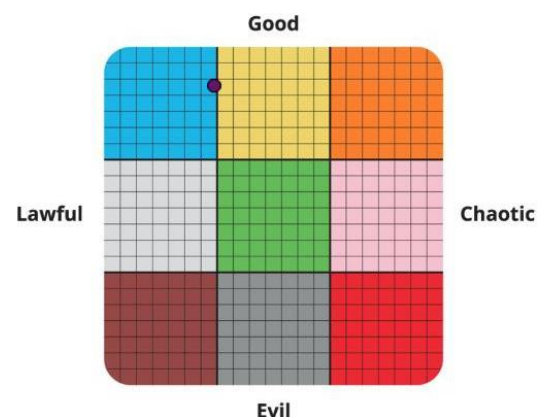
Attitude	<ul style="list-style-type: none"> <li>• <b>Obligation:</b> Winning in a competition with a real world problem will be a good way to prove yourself to future colleagues/teammates.</li> <li>• <b>Desire:</b> Being in top 3</li> <li>• <b>Intention:</b> Increasing my capacity as much as needed for task to be done perfectly.</li> </ul>
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Skills	<ul style="list-style-type: none"> <li>• Open VSP</li> <li>• AAA</li> <li>• Latex</li> <li>• Simulink</li> </ul>
Knowledge	<ul style="list-style-type: none"> <li>• Aircraft Performance</li> <li>• Aircraft Design</li> <li>• Flight Dynamics</li> </ul>
Experience	<ul style="list-style-type: none"> <li>• Aircraft Performance Sizing</li> </ul>

Weakness	<ul style="list-style-type: none"> <li>• Disordered sleeping schedule</li> <li>• A bit sensitive</li> <li>• Having High wasted time</li> <li>• Judgmental</li> <li>• Stubborn</li> </ul>
Strengths	<ul style="list-style-type: none"> <li>• Supportive</li> <li>• Negotiation Skills</li> <li>• Caring &amp; Persistent</li> </ul>

Expectation from my teammates	Be respectful especially respecting each other's boundaries and not quitting and being dedicated. also don't be opinionated.
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Personality Test: ENTP



You are 76.7% good, 35% lawful, making you lawful good.



## Team Logics:

- 1) Nobody should miss the deadline
- 2) Everybody must to respect their teammates
- 3) Don't use bad words
- 4) Use version control softwares to keep track of their work
- 5) Being on-time
- 6) Do not underestimate nor over compliment each other's work

## Spider Chart:

