

Bordeaux - Motivation letter for this activity

Bonjour, chers OrgaNICers!

I like cheese, I like wine, I like cheese and I'm interested in aeronautics. (And I like cheese)

So, the decision for applying to your awesome spring course in France was an easy one.

Je m'appelle Andy (Andreas Se on Facebook – if you want to stalk me) and I'm from beautiful Vienna, Austria. There I'm studying mechanical engineering at the Technical University.

After a BEST cultural exchange in Ekaterinburg, which was a lot of fun, new experiences, making friends and a lot of crazy shit, I'm now ready for another BEST event.

So I decided that I want to get to know more people around Europe and make new experiences abroad.

Beside my studies I'm working for 10hours a week as a mechanical designer at

Schiebel GmbH where we design and build UAV's (Unmanned Helicopter / Maximum take-off weight 200kg). So, you could say I'm a little bit connected to the topic of your spring course. Additionally, I'm always curious and motivated for learning new things and I think that's really important if you want to be part of the future of aeronautics.

France, famous for its cheese, especially Bordeaux for its wine and part of Aerospace Valley is THE place to be, for me.

Still not persuaded? Here's an interesting fact: Originally, I come from the region Burgenland in Austria. Its famous for a drink you're for sure familiar with: Red Wine.

Blaifränkisch is the most famous one there. Like the Bordeaux, in Bordeaux. Coincidence? I think not! So, say yes to my Application and let us enjoy some good

Austrian and French wine together.

If I convinced you that I am the right person for your course, my work is done and I'm looking forward for meeting all of you.

Best Wishes, Andy.

PS: If there's a guitar available I could play some songs about cheese.

Activity specific questions

If you were a toy what would you be and why?

I would be fluffy, ... real fluffy, with an awesome haircut. I would be a stuffed toy alpaca made from baby alpaca wool, because it's the fluffiest one.

Why? Just look at alpacas, they are awesome. Every time I see one, I must smile, and I think I'm not the only one. So as a stuffed toy alpaca I would make people happy and could spread the awesomeness of alpacas!

What are the principles of flight?

The principles of flight or the four forces of flight, Thrust, Drag, Lift and Weight, are the forces which define the motion of the plane. The thrust is generated by the engines which counteracts drag. Drag is mainly caused by friction and vortexes, which arise at the lift generating parts of the plane.

Lift is generated by the wings because of the pressure distribution on the wing area. During flight the average pressure on the lower side is higher than on the upper side resulting in an upwards acting force. The weight of the plane counteracts lift.

During flight with constant airspeed and altitude the four forces of flight are in equilibrium.

What is the flying transport system and its development humans should focus the most? Why?

Increasing overall efficiency.

That includes development on better engines or even some new engine concepts.

(e.g. some days ago there was a newspaper article about a small plane driven by ions)

Use more lightweight materials and decrease the weight of the plane.

Why? Air traffic emits a lot of greenhouse gases which will be a problem for us all in future. Increasing the efficiency would help to improve this problem.

Also from an economical point of view increasing efficiency is important.