Design and Control of a Bicopter MAV

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What are the next steps ?

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From the litterature

- Read some litterature
- Read some websites on "Do it yourself"
- Read some slides from lecture of Robots dynamics

Figure: Different existing parts

Design of the Bicopter

The goal of the design is to

- be simple
- use the maximum of commercially avaible parts

Design of the Bicopter

A few numbers:

- Tilting motor has 60 RPM and is increased with gearings to 120 RPM
- Slip-ring with 3 wires
- Battery life of over 5 minutes

What are the next steps ?

- To finish building it

What are the next step ?

- Create the gazebo model

- To develop the system for control
- Bonus : test it in a real flight

References

- Picture - bicopter 1 : https://i.ytimg.com/vi/t36SHm18Gkc/maxresdefault.jpg
- Picture - bicopter 2 : https://i.ytimg.com/vi/IDGvkzGSbVg/hqdefault.jpg
- Picture - bicopter 3 : http://cdn3.volusion.com/ezdgu.nkdss/v/vspfiles/photos/ADX1501-7.jpg?1511770701

Questions ?

Thank you for this project !