**HoverGames First Flyers checklist and General Documentation template**

**----------------------------------------Your input starts here-----------------------------------------**

**Task 1) General documentation template:**

Please fill out this template and post your submission into your [self-created subdirectory (e.g.](https://teams.microsoft.com/_" \l "/files/Submissions%20First%20Flyers?threadId=19%3A657e4786ed1c4e2692cafe01b6d6226f%40thread.skype&ctx=channel) *[Team Harry Hoverpig](https://teams.microsoft.com/_" \l "/files/Submissions%20First%20Flyers?threadId=19%3A657e4786ed1c4e2692cafe01b6d6226f%40thread.skype&ctx=channel)*[).](https://teams.microsoft.com/_" \l "/files/Submissions%20First%20Flyers?threadId=19%3A657e4786ed1c4e2692cafe01b6d6226f%40thread.skype&ctx=channel) Please feel free to re-use content from your application on Hackster where applicable.

1. **Please name every participant. Please mark those who are not NXP. Optionally note the roles of each of the participants.**

*Soheil Bahrami (NXP engineer): Digital Hardware Architect*

*Mahmoud Sherrah (NXP engineer): Software Engineer*

1. **Project title:**

*FlyingFox*

1. **Please give a one-sentence elevator pitch on your project**  
   *An autonomous drone with camera-based AI vision capabilities, able to assist fire brigade members in identifying potential victims of fire breakouts during and after dispatch time.*
2. **State Bill of material. Highlight any interesting use of additional components**  
   *All components are listed in our project description document found on our GitHub repository.*
3. **Please introduce your full story: How does your drone help fight fires?**  
   Highlight any interesting use of additional software or hardware. Note a detailed project enabling one thing is just as valuable as a larger generic project. Wrap a story around it.

*The project story revolves around autonomous real-time camera-based information gathering and sharing to fire brigade members on the outbreak of fire. An autonomous robust quadcopter drone is equipped with an HD camera and a powerful on-board artificial intelligence component – Google Edge TPU - which is able to quickly identify human gestures and instantly sends a summary of the gathered information through the Sigfox network to the fire brigade members.*

*The full concept is detailed in the project description document available on our GitHub repository and Teams submission.*

1. **If available, please provide any schematics. Also share CAD files if created into your submission folder on teams.**  
   *A high-level component diagram is included in the project description document on our GitHub repository and Teams submission.*
2. **Please share a link to your bitbucket repository**  
   [*https://github.com/Sherrah/HoverGames2019*](https://github.com/Sherrah/HoverGames2019)

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