

## Template for Pre-MIC4 Application (Resource Provider)

### Provider Information

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### Resources that you can provide

NPC is a multi-business company. In particular, the internal division Spacemind, is focused on nano-satellites and precision pointing devices. The company gained experience in the development and management of space missions. NPC has already taken part and won the 3<sup>rd</sup> Mission Idea Contest as developer, with the mission “Cloud Height Mission” presented by Klemen Zaksek. NPC is currently involved in two different cubesat missions, included Ursa Major QB50 satellite of University of Rome. In the past the team was involved in educational space programs such ESA Rexus/Bexus and the Canadian Satellite Design Challenge (CSDC). The team is also developing a high precision alt-azimuthal mount for 1 meter class telescopes named MORAL. The company develops different subsystems for nano-satellites such as deorbiting and micro propulsion systems. In particular now the research is focused on the deorbiting system and its integration with existing platforms. NPC has experience in drafting and planning space missions, tests and integration. It has laboratories for the assembly of hardware and thanks to multiple connections it has access to different facilities for proper qualification tests. The team has experience in working in international and multicultural environment following the international guidelines on space projects and mission management such as ECSS. We would like to support the follow mission:

- Joao Dallamuta: Newton Small Space Telescope.

Our team already worked with Joao in the preliminary development of the “6S mission” for the Pre-3<sup>rd</sup> Mission Idea Contest workshop. Unfortunately he was not able to participate to the 3<sup>rd</sup> Mission. Anyway we already know each other and we would be very happy to work together again. In particular NPC is developing an high precision mount for 1 meter class telescopes called MORAL. It has already been planned a downsize in order to realize the space version of the system to be integrated into a small satellite. For this reason this collaboration could be very useful for us: in particular we could deal with the space mission management, scheduling and drafting of all mission phases and help in the technical design of the spacecraft and payload. If the mission will go ahead it will be also possible to think to the realization of an engineering module of the satellite and seek for launch opportunities. NPC can offer management, consulting service, man power, co design and collaboration for the entire mission or payload development. It is also possible to provide a compact and fully integrated deorbiting device.