# 

# **Helpful Engineering Proposal Submission template**

Please note: This proposal will be made publically available after submission to HE, as part of an open-source repository.

|  |  |
| --- | --- |
| Project Name | open.PAPR |
| Date | 15.04.2020 |
| Owner(s) | Ralph Wunderlin |
| Project Slack Channel | #project-open-papr |

# 

# **COVID Alignment**

### Mission Alignment

How is your project aligned with Helpful Engineering's mission to combat COVID-19? Please make a brief introduction to your proposed solution and argue how it is highly aligned with Helpful's mission. Assume the reader is familiar with COVID, but not familiar with your particular project.

|  |
| --- |
| open.PAPR shall provide an open design for a Powered Air-Purifying Respirator that can greatly improve the safety of medical staff working with patients with any condition that requires wearing a safety mask (e.g. FFP2, N95) as PPE.  The clinicians working with patients are exposed to high live viral loads as well - with devastating effects. Dozens of doctors and countless nurses have died in Italy, hospitals have been closed due to infected staff in Germany - this project shall deliver a safer working environment for the clinicians and also make proper decontamination possible. |

# **Impact**

### Overall Impact

Helpful's members are here to make a difference! Help the reviewers understand what your project's impact -- when successful -- will be on the pandemic. Cite evidence to support your claim if you can. Attempt to quantify the amount of people you help, using rough estimates if evidence is not available.

|  |
| --- |
| Answer here |

### Helpful's Role

Why are you proposing this to Helpful's community? We want to engage in projects where the skills and talent of Helpful's members can make a profound difference in the success or failure of your ability to execute.

|  |
| --- |
| Answer here |

# **Technical Viability**

### Scientific Feasibility

Is the science behind the solution sound? Convince readers who don't have deep expertise in your field that your innovation is built atop sound scientific and engineering principles. Point to the foundational and proven technologies that you rely on to deliver your solution.

|  |
| --- |
| Answer here |

# **Speed**

### Time to Impact

The pandemic is moving fast and has a head start. How quickly can your solution begin to impact the problem it solves? Try to provide best case, worse case and average case estimates.

|  |
| --- |
| Answer here |

### Scaling to High Volumes

How quickly can your solution be scaled to high volumes? This second aspect of speed is of crucial importance to Helpful and for pandemic responses in general.Try to provide best case, worse case and average case estimates.

|  |
| --- |
| Answer here |

# **Team**

### Team Membership

Do you have the key people and core capabilities you need to get to the next few milestones? If not, convince judges you have a credible recruiting plan and can fill personnel gaps.

|  |
| --- |
| Answer here |

### Execution to Date on this Project

How has your team executed as a group on this project? What milestones have you accomplished as a group so far?

|  |
| --- |
| Answer here |

# **Project Needs vs. Helpful Talent**

For all of the below, if you have needs in this area, please pitch for Helful’s assistance. Explain what you need and why it will allow your project to progress.

### QA/RA Needs

|  |
| --- |
| Answer here |

### Financial Needs

|  |
| --- |
| Answer here |

### Recruiting Needs

|  |
| --- |
| Answer here |

### Technical Expertise Needs

|  |
| --- |
| Answer here |

### Medical Expertise Needs

|  |
| --- |
| Answer here |

### Connection/Media Needs

|  |
| --- |
| Answer here |