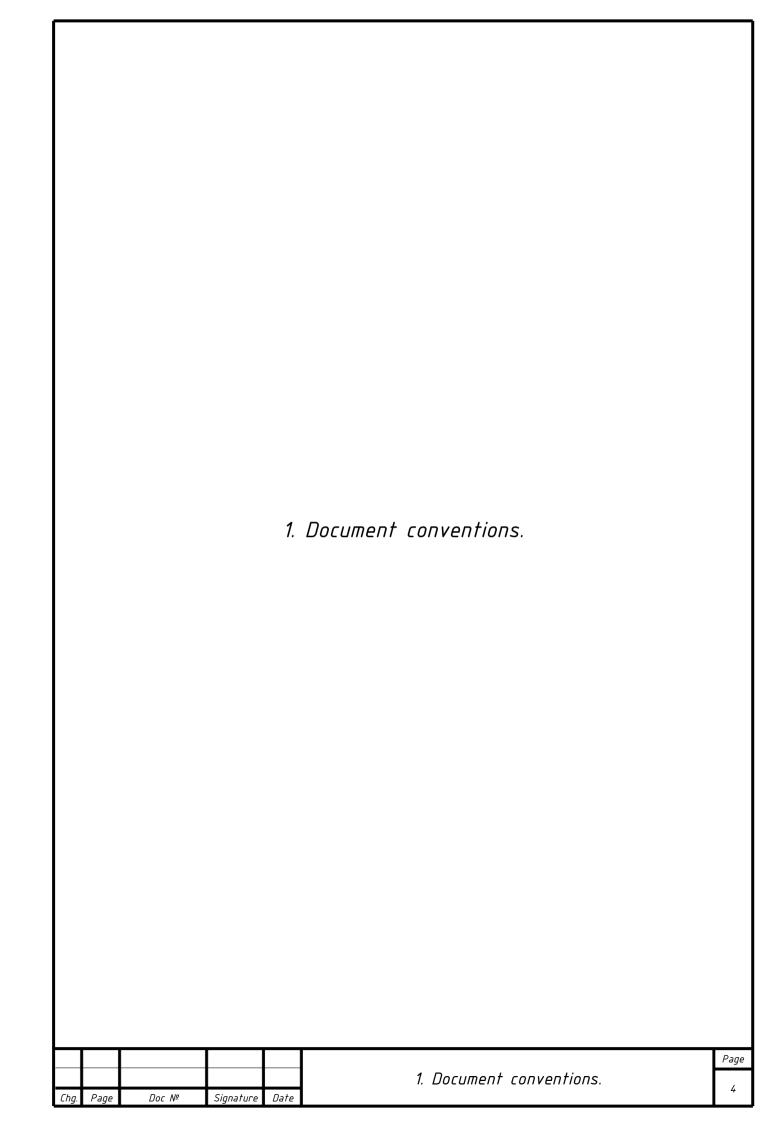


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1.	Document conventions.	In progress.	4
1. 1.	Abbreviations used.	In progress.	5
1.2.	Text formatting.	Done.	
<i>1.3.</i>	Appearance of pages.	Done.	
1.4.	Versioning.	Done.	
2.	General description.	In progress.	
2.1.	Hardware.	Done.	
2.2.	Software.	Not started.	
<i>3.</i>	Hardware.	In progress.	
<i>3.1.</i>	Technical specification.	In progress.	
<i>3.2.</i>	Schematics.	Not started.	
3.3.	BOM.	Not started.	
3.4.	РСВ.	Not started.	
3.5.	Assembly	Not started.	
4.	Software.	Not started.	
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1.1. Abbreviations.

PCB - printed circuit board

TBD - to be discussed

ADC - analog to digital converter

DAC - digital to analog converter

RGB - red, green, blue

LED - light emission diode

USB - universal serial bus

GPIO – general purpose input output

GHz – giga hertz

IMU - inertial measuring unit

CNC - computer numerical control

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1.2. Text formatting.

The font name used - ISOCPEUR.

The font size - 14.

The font format - italic.

The font color - black.

Try not to use different text colors. If possible stick to only black color of text. Exception may be images, there may be different colors, but if possible use black text color everywhere. And yeah, if source code is added then there is no limitation on source code highlighting.

To highlight some part of text use **bold** text or <u>underlined</u> text.

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1.3. Appearance of pages.

1.3. Appearance of pages.

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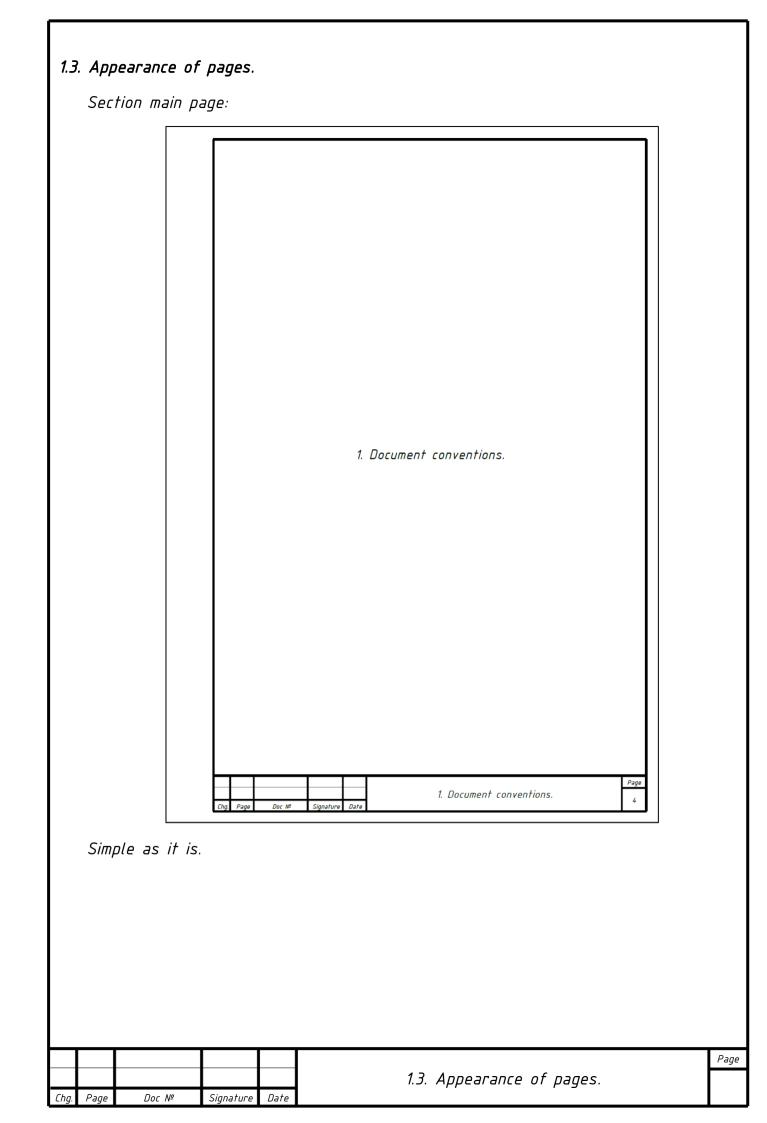
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1.	Document conventions.	In progress.
1. 1.	Abbreviations used.	In progress.
1.2.	Text formatting.	In progress.
<i>1.3.</i>	Appearance of pages.	In progress.
1.4.	Versioning.	In progress.
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2.	General description.	Not started.
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3.2.	Schematics.	Not started.
<i>3.3.</i>	BOM.	Not started.
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3.5.	Assembly	Not started.
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4.	Software.	Not started.
		
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Sections and sub-sections have status in `Note` column.

Possible statuses: Not started, In progress, Done.

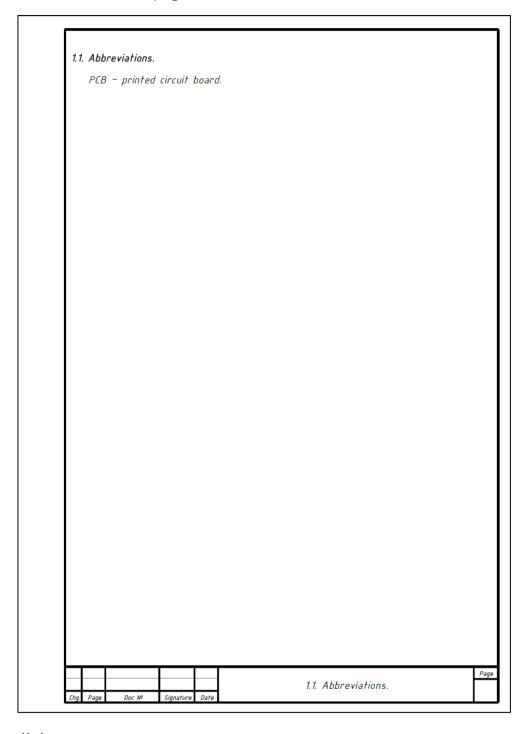
Every sub-section is indented by two `spaces` relative to its parent section.

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1.3. Appearance of pages.

Section/subsection content page:



Simple as it is.

<u>Note.</u> All those page templates may be obtained by simply copy and paste from already existing pages and then modifying them.

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1.4. Versioning.

The document versioning scheme is the following:

Ver.major.minor.patch.

For example:

Ver. 4.2.1.

major – is incremented only if completely different document version is released or document changes its state from `beta` version to `first release` state. For example, from Ver.0.2.14 to Ver.1.0.0 or something similar.

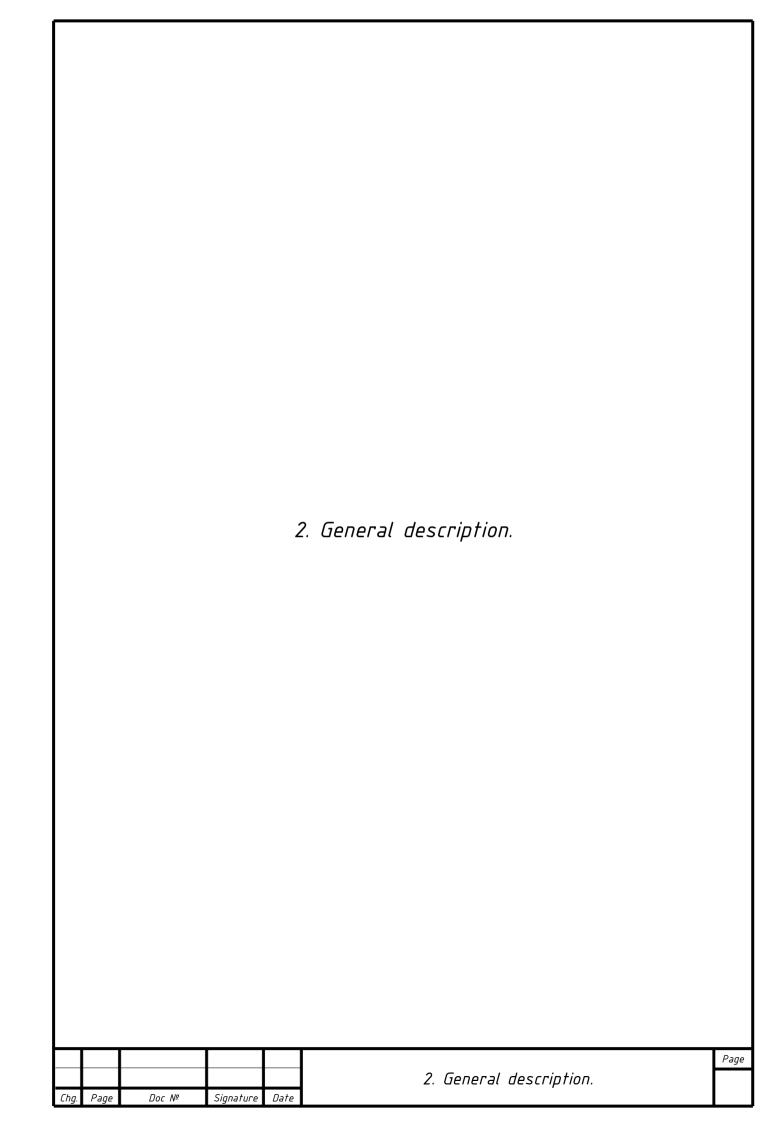
minor – is incremented when new chapter is added or similar. Minor version number may be reset when major version number is incremented

patch — is incremented when chapter is edited, some cosmetics are made or similar. Patch number may be reset when minor or major version number is incremented.

<u>Note.</u> Try to increment versions constantly. For example, if section is added, increment the minor version and only then start to add the next section.

<u>Note.</u> This document version does not represent the version of hardware or software. Hardware and software have their own private version schemes and numbers.

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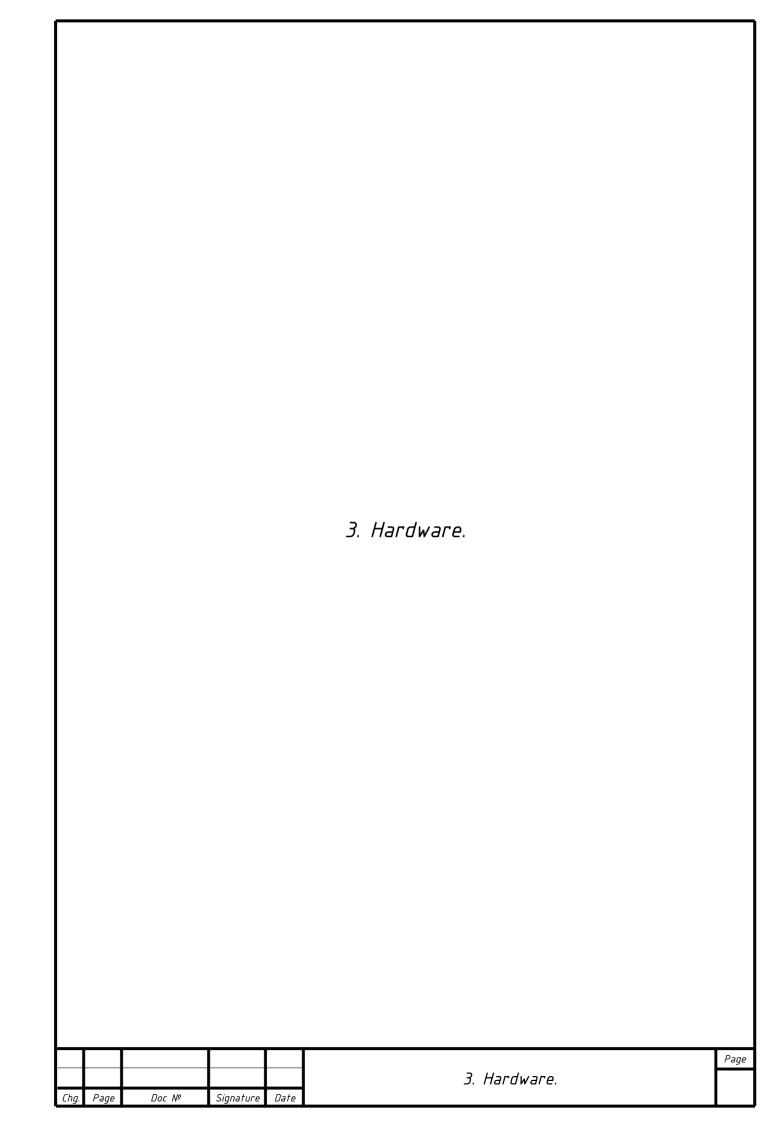
2.1. Hardware.

The `femtoino` is Arduino like device, but in a small form factor with the following features:

- · USB Type-C power connector with data communication over it
- · GPIO expansion pins including analog pins for ADC and DAC
- · External Li-ion battery connector, for autonomous operation
- · Some on-board sensors if enough space is available (TBD), for example the temperature, barometric pressure, humidity, IMU, light sensors, etc.
- · 2.4GHz wireless interface for connectivity
- · One or more onboard RGB LEDs
- · CR2032 battery holder
- · One or more micro buttons
- · Micro SD card slot if possible
- · Possibly some CNC milled case may be developed for this device in future, so consider to make usable GPIO expansion pins and wireless antenna connector

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3.1. Tecl	hnical specif	ication.	
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