



ANEXO IV

MANUAL DE MONTAJE

TFG

GRADO EN SISTEMAS DE TELECOMUNICACIONES E INFORMÁTICOS

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TUTOR: BONILLA FERNÁNDEZ, D. ANTONIO

IES LAS FUENTEZUELAS

AÑO 2024

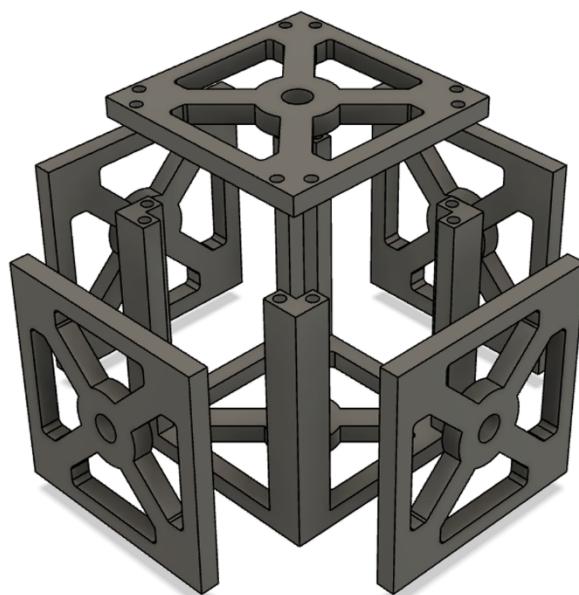
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1. Manual de Montaje.



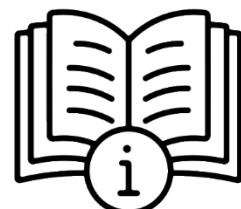
By: ALEJANDRO PEREZ ARANDA



ARDU-SAT

2023/V1

- ES** Manual de Instrucciones
- PT** Manual de Instruções
- EN** Instructions Manual
- FR** Manuel d'Instructions
- DE** Handbuch





ES ESPAÑOL

ADVERTENCIA: para evitar cualquier problema a la hora del montaje, por favor siga las instrucciones de forma rigurosa.

EN ENGLISH

WARNING: to avoid any problems during assembly, please follow the instructions strictly.

DE DEUTSCH

AUHTUNG: Um Probleme bei der Montage zu vermeiden, befolgen Sie bitte genau die Anweisungen.

PT PORTUGUÊS

AVISO: para evitar problemas durante a montagem, siga rigorosamente as instruções.

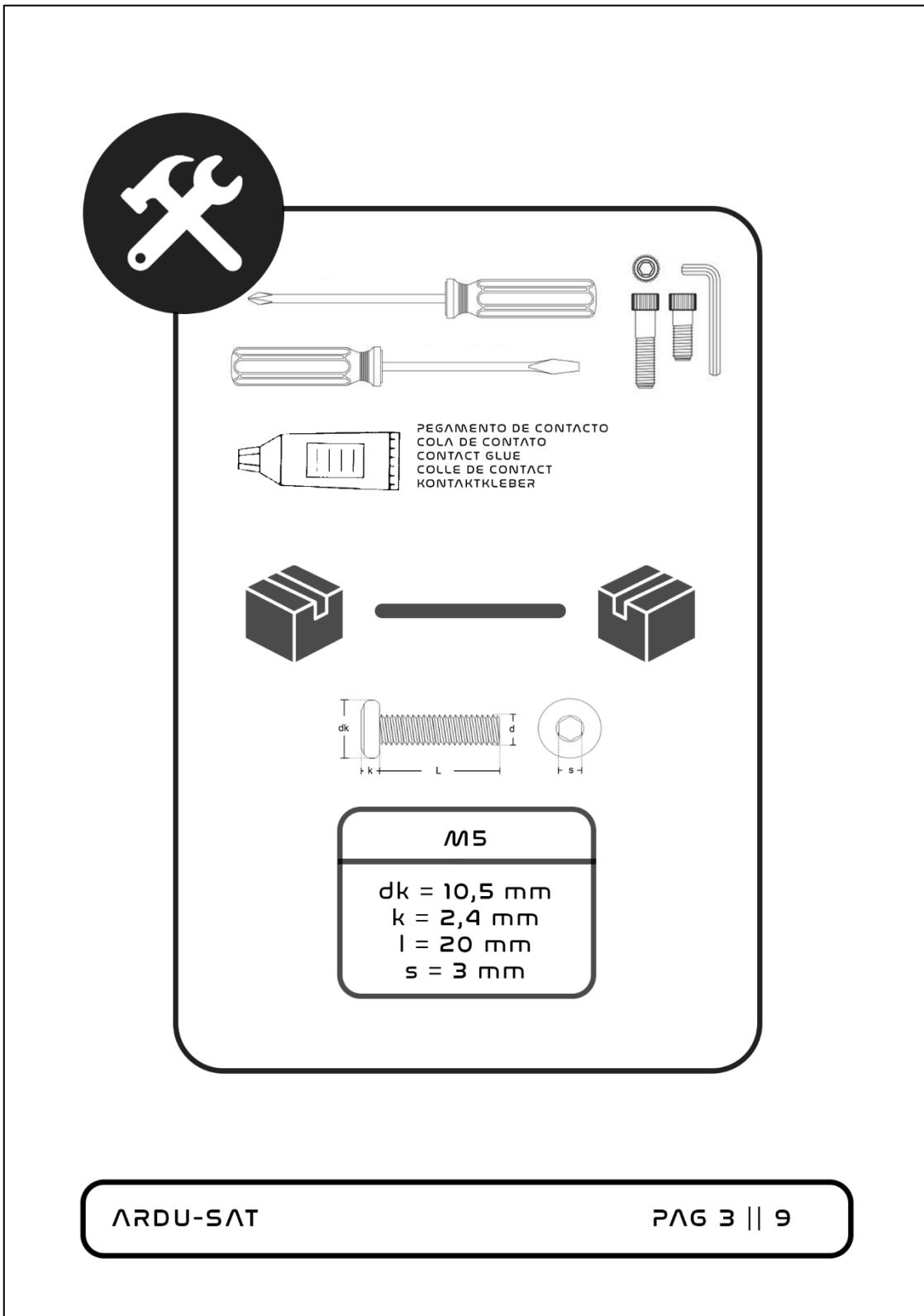
FR FRANÇAIS

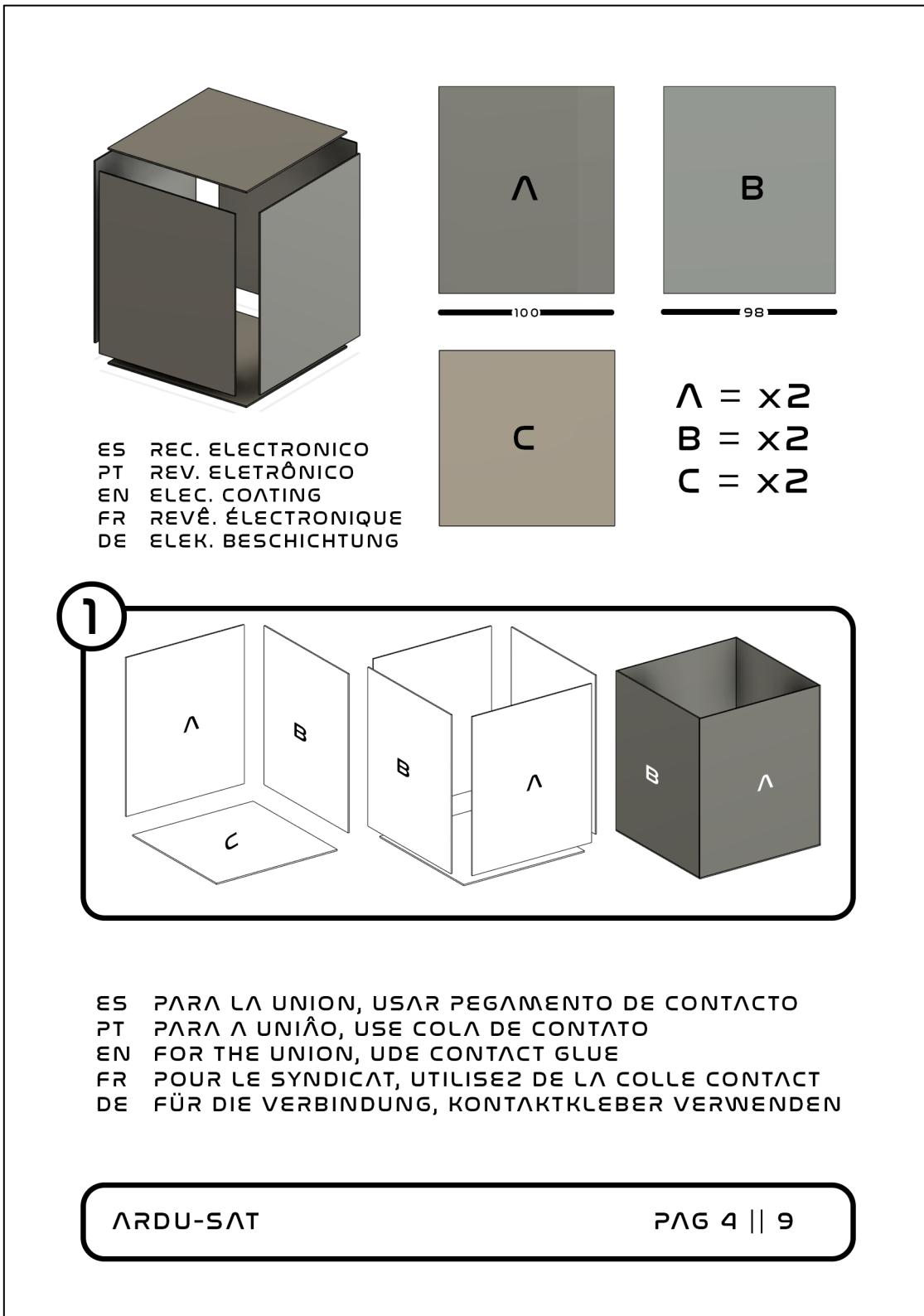
AVERTISSEMENT: pour éviter tout problème lors du montage, veuillez suivre scrupuleusement les instructions.

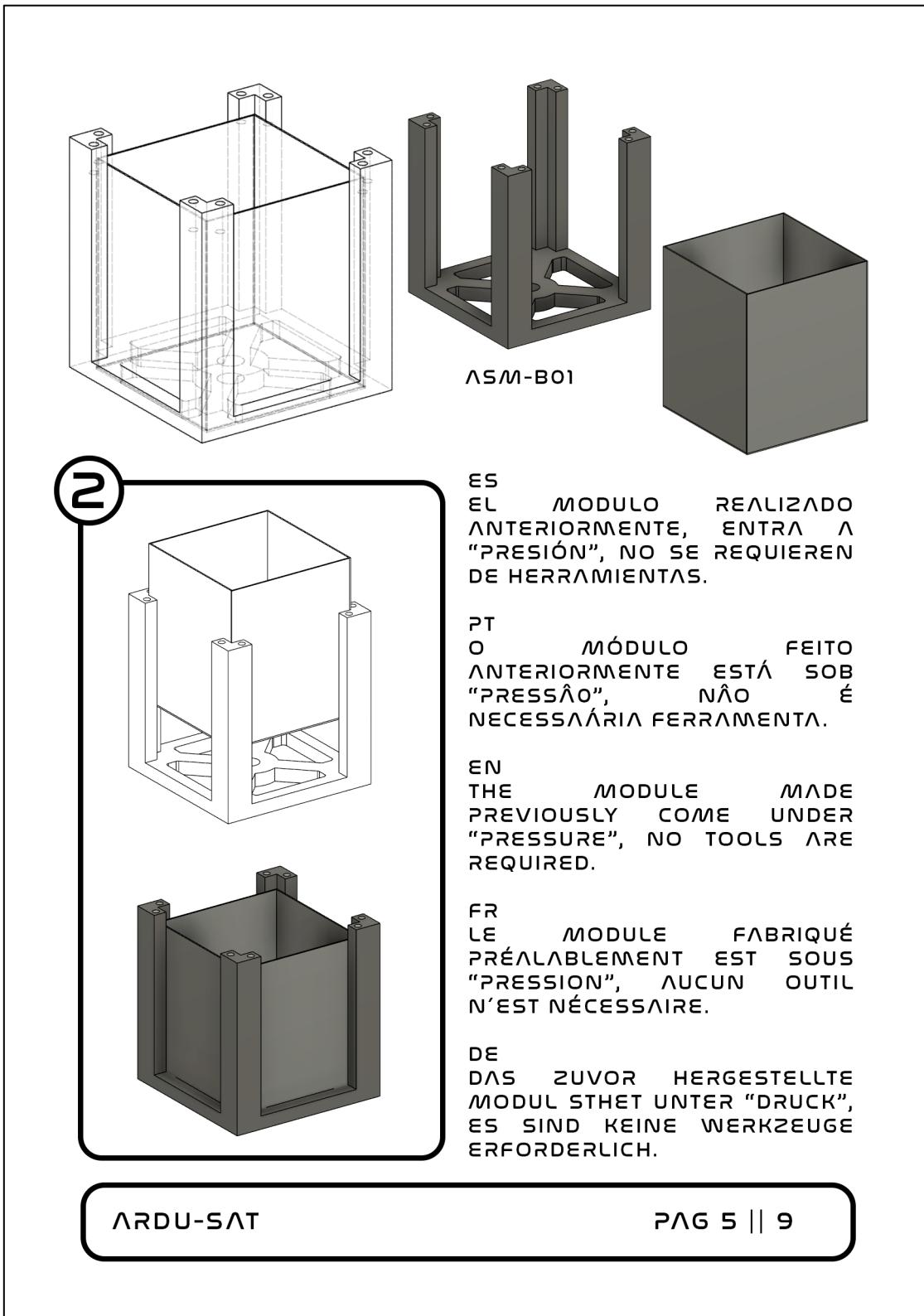
```
def _draw(self, x=0, y=0):
    width = len(self.struct[0]) * TILE_SIZE
    height = len(self.struct) * TILE_SIZE
    self.image = pygame.surface.Surface([width, height])
    self.image.set_colorkey([0, 0, 0])
    # Position and size
    self.rect = Rect(0, 0, width, height)
    self.x = x
    self.y = y
    for y, row in enumerate(self.struct):
        for x, col in enumerate(row):
            if col:
                pygame.draw.rect(
                    self.image,
                    self.color,
                    Rect(x*TILE_SIZE + 1,
                          y*TILE_SIZE + 1,
                          TILE_SIZE - 2, TILE_SIZE
                          - 2))
    self._create_mask()
```

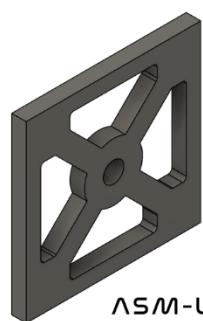
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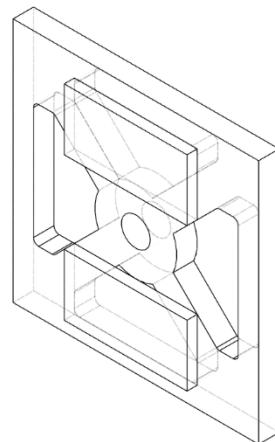




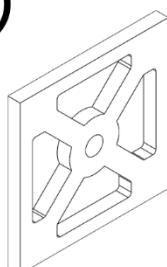
ASM-L



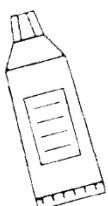
ASM-PS
x2



3



+



+



x4

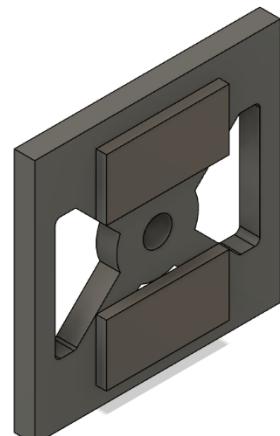
ES
REPETIR EN LOS CUATRO MÓDULOS
LATERALES.

PT
REPETIR NOS QUATRO MÓDULOS LATERAIS.

EN
REPEAT ON THE FOUR SIDE MODULES

FR
RÉPÉTEZ DANS LES QUATRE MODULES
LATERAUX.

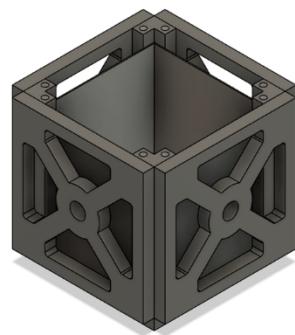
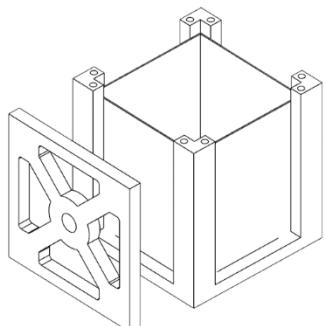
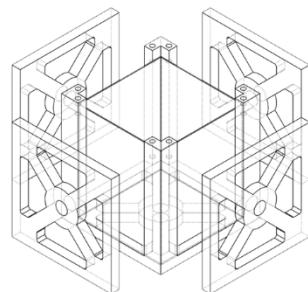
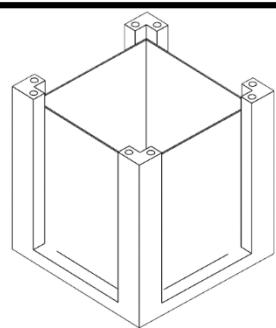
DE
WIEDERHOLEN SIE DIES IN DEN VIER
SEILICHEN MODULEN.



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ES PARA LA UNION, USAR PEGAMENTO DE CONTACTO

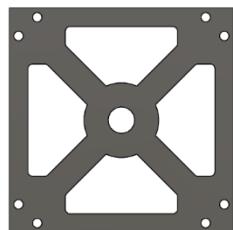
PT PARA A UNIÃO, USE COLA DE CONTATO

EN FOR THE UNION, USE CONTACT GLUE

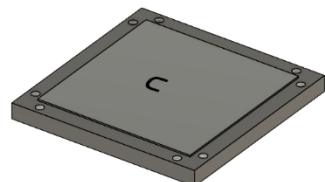
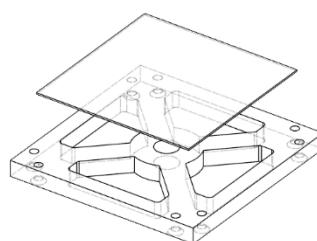
FR POUR LE SYNDICAT, UTILISEZ DE LA COLLE CONTACT

DE FÜR DIE VERBINDUNG, KONTAKTKLEBER VERWENDEN

5



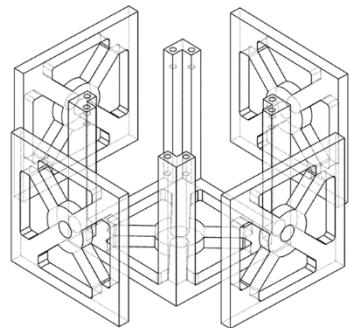
ASM-TC



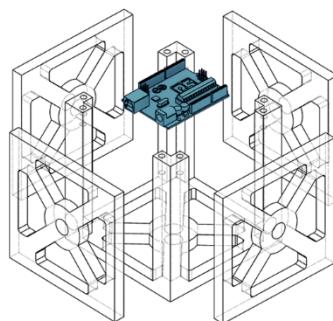
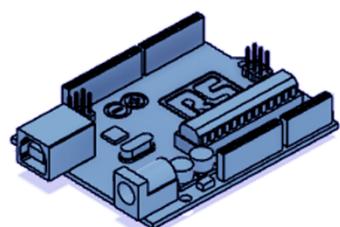
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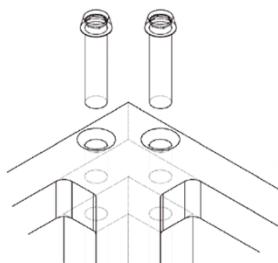
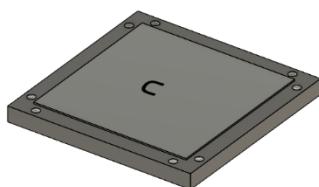


ES MONTAJE ELECTRÓNICO
PT MONTAGEM ELECTRÔNICA
EN ELECTRONIC ASSEMBLY
FR ASSEMBLAGE ÉLECTRONIQUE
DE ELEKTRONISCHE BAUGRUPPE



ES CIERRE Y FINALIZACIÓN DEL MONTAJE
PT ENCERRAMENTO E CONCLUSÃO DA MONTAGEM
EN CLOSING AND COMPLETION OF ASSEMBLY
FR CLÔTURE ET FIN DE L'ASSEMBLÉE
DE ABSCHLUSS UND ABSCHLUSS DER MONTAGE

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ARDU-SAT

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8



GITHUB



Alejandro Pérez Aranda
XAUEN SPACE
ARDUSAT

ARDU-SAT

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2. Consultas.

Para cualquier duda o consulta acerca de este **ANEXO IV** o sobre el proyecto en general, contacte conmigo a través de los siguientes medios:

MAIL: alejandroperezaranda99@gmail.com

GITHUB: [Https://www.github.com/alejandroperez9/ARDUSAT](https://www.github.com/alejandroperez9/ARDUSAT)



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INSTAGRAM: <https://www.instagram.com/aleejandropereez/?hl=es>