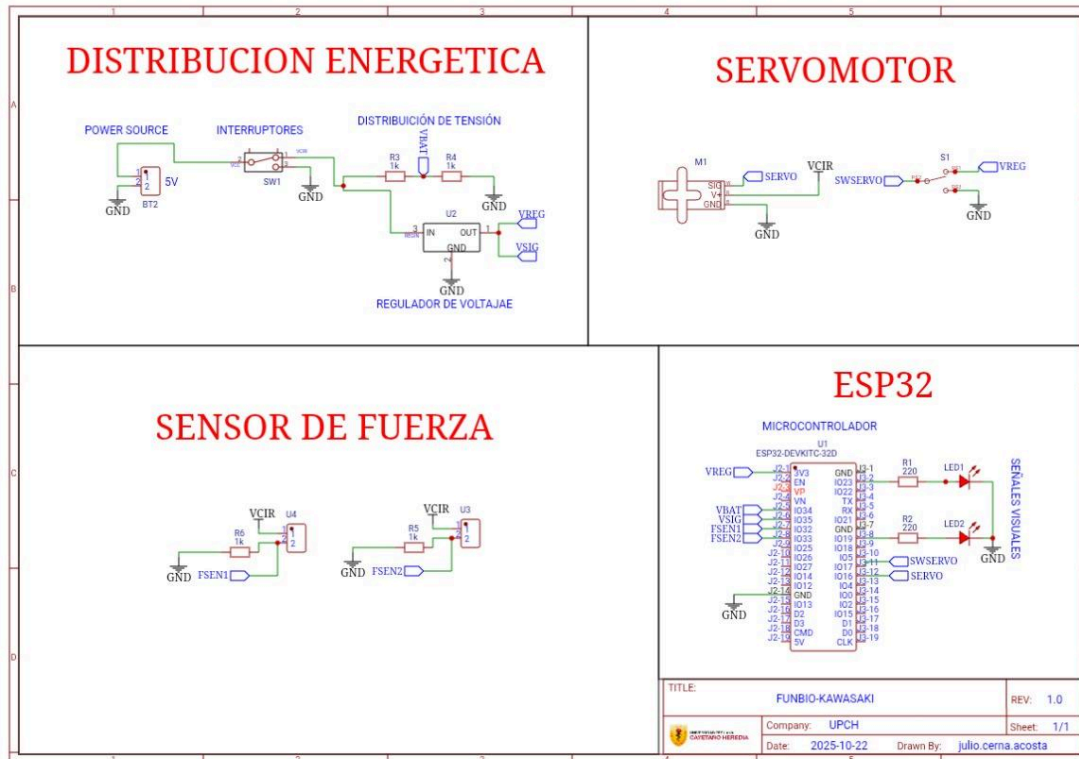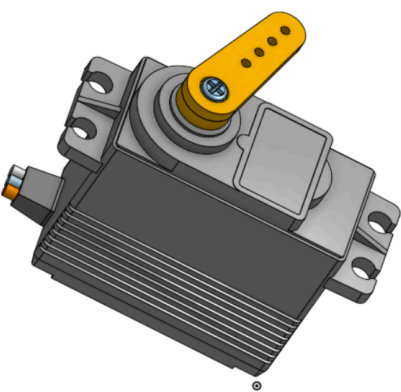# ENTREGABLE N°8: DISEÑO ESQUEMÁTICO DEL PROTOTIPO. MODELADO 3D DE LOS ELEMENTOS QUE CONFORMAN SU PROTOTIPO
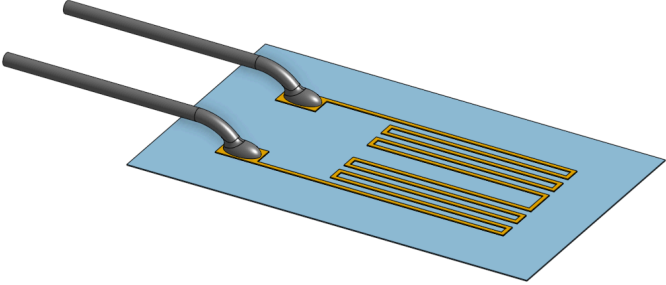
Diagrama o Esquema Electrónico del concepto de solución:
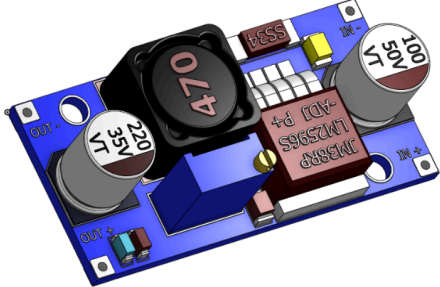

Modelado 3D de los componentes por separado:

Importados:

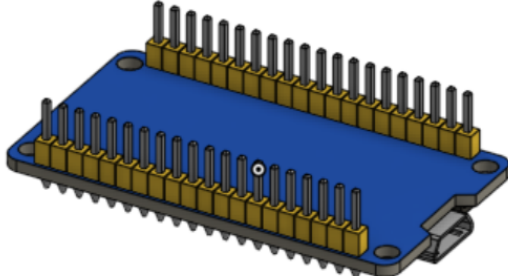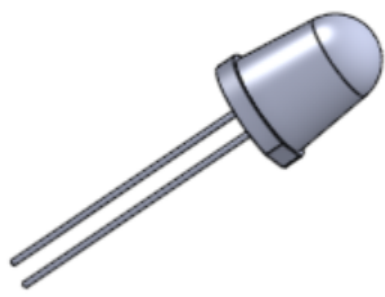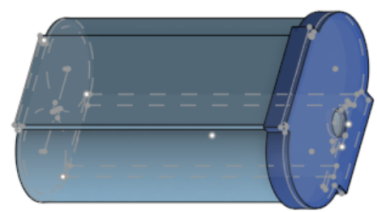| Hitec HS-7954SH	
Permite el cambio de sentido y freno. Link: https://cad.onshape.com/documents/6e2f6adcda6fd9c68413ec3d/w/5540256cb0f1674ecdd62ca1/e/9dd69f7958bb0f6ca6136c56?renderMode=0&uiState=68fab0e9f2bb57b903e8c2a3	

Strain gage	
Link: https://cad.onshape.com/documents/4b16e37327758734f3fa5df2/w/5c22215e732065d5cc922fd4/e/2bd44ea4c1119a9901e88b26?renderMode=0&uiState=68fab2935cc0393ea636cc03	

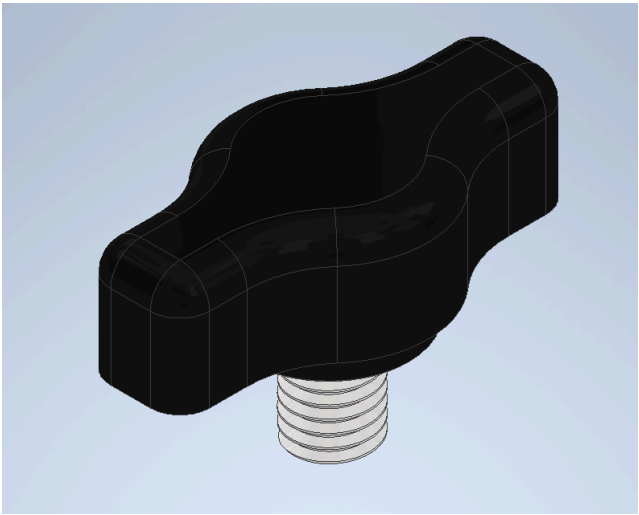|	
Regulador De Voltaje Dc-dc Lm2596	
Link: https://cad.onshape.com/documents/68f68d7b6ea87911dee5d4d5/w/26a8b8a100db7551ed4b5446/e/69e769439670035a26500c76?renderMode=0&uiState=68fab312e6e04d504fe8d74e	

Switch	
Link: https://cad.onshape.com/documents/15d91f6365dc077cde08afb1/w/c799197fe858fa2fdd029811/e/91cf00b577ad0bc163d0bb50?renderMode=0&uiState=68fad1d8ddfb709123d65a70	

ESP32	
Link: https://cad.onshape.com/documents/ bf06bb8bfbe8fe0004041b22/w/b9b7 7c645c58177d81bc9766/e/6baab793 c940c2302ab8e6b1?renderMode=0 &uiState=68fadb7797357d345ad55c 22	

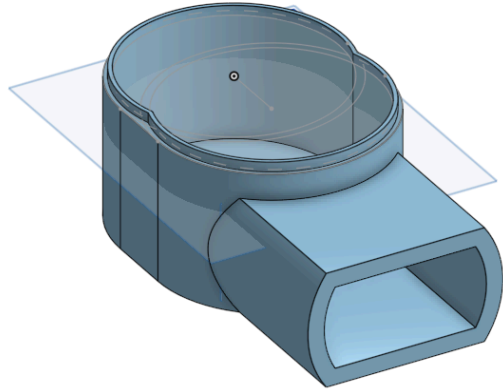|	
LED	
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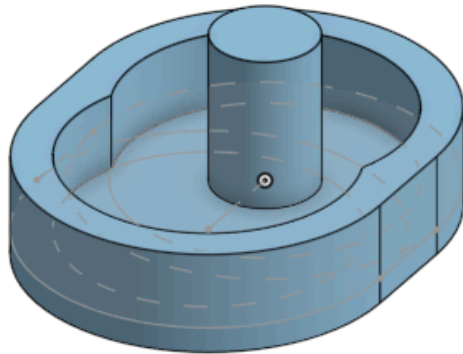|	
Bateria	
Link: https://cad.onshape.com/documents/ bd390f73bad338591f4f21d5/w/d0b8 a0cbc1fee8c218ad7ef2/e/fb711856e ca25a9d5b222507?renderMode=0& uiState=68fadf17b99157cee7ddaeba	

Abrazadera	
Asegura ajuste al eje Modificado a escala Link: https://cad.onshape.com/documents/deec412b3cd5b3ff2e335d65/w/e02b89dd3c5a9769be20eac2/e/080fca942755896d26315fad	

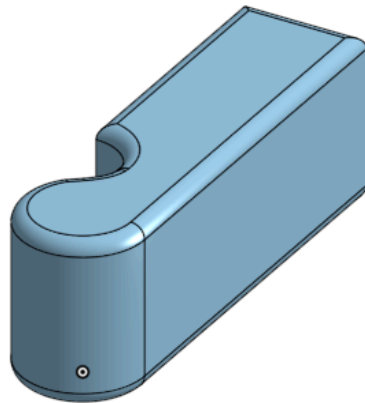| Tornillo mariposa	
Asegura ajuste a la tapa Modificado a escala y medidas Link: https://cad.onshape.com/documents/ea362cc740fc813d504dcab4/w/2dfea8bfc239fe4eaefa0a0f/e/b6eb411fec96b5a4a8f9950d	

Modelados:

Partes Ratchet:
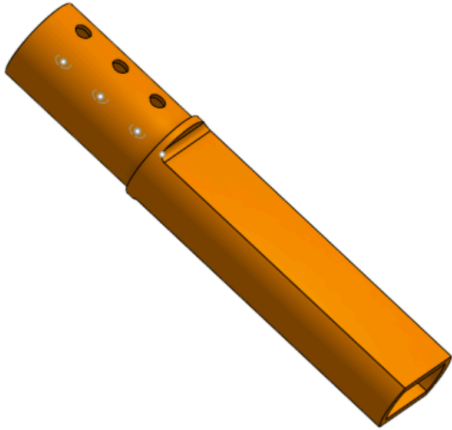
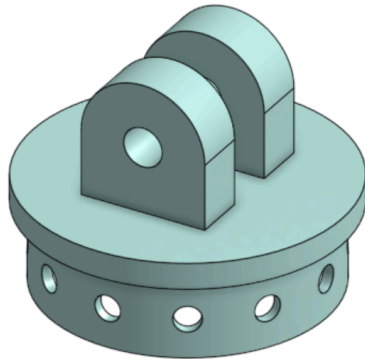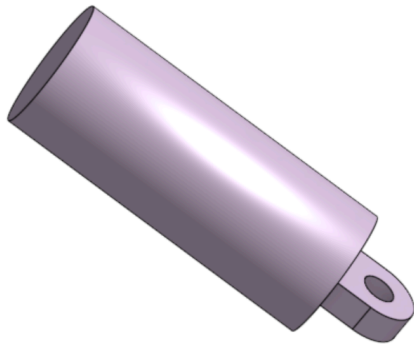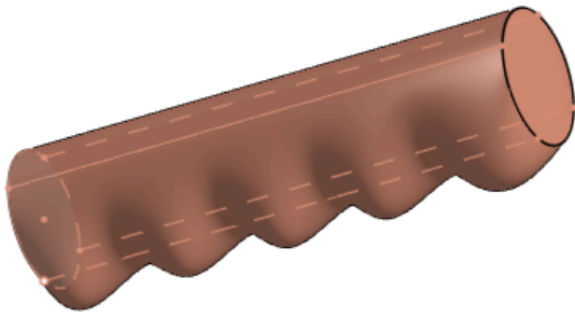|	
R_union_barra (v1) Parte donde irá el servomotor y se unirá al ratchet y a la palanca Link: https://cad.onshape.com/documents/464e919604ea526d5648999a/w/d121562e4b88be7a7ad0b0e5/e/f0aebabd30336cdb6392c2f0?renderMode=0&uiState=68faa2953eaf2a489c93d37f	
R_ratchet (v1) Base del ratchet donde están las piezas y se unirá al eje. Link: https://cad.onshape.com/documents/45764cfabb6fb147acec867b/w/e1540424ae78a76a7e8f491d/e/372a0884e43dabc76ce558e3?renderMode=0&uiState=68faa2b8a86e8bc8e5ce778a	
R_barra_dirección (v1) Barras que moverán la dirección de empuje del ratchet Link: https://cad.onshape.com/documents/abc4462441bd8285f640b40b/w/0deaff2bca6a559aade33c1c/e/dc0393127c02d3c945c542dd?renderMode=0&uiState=68faa2cd5de970dd60ec4c2b	

Partes agarre:

Partes palanca:

P_union_inferior (v1)	
Parte baja de la palanca unida al ratchet. Permite regulación de altura. Link: https://cad.onshape.com/documents/ 2f84863571458f0843a0e98b/w/9121 a1c4954e7fdb289b565d/e/7242b376 08cc31b0d9007e25?renderMode=0 &uiState=68faca0234e6012dc82b61 85	

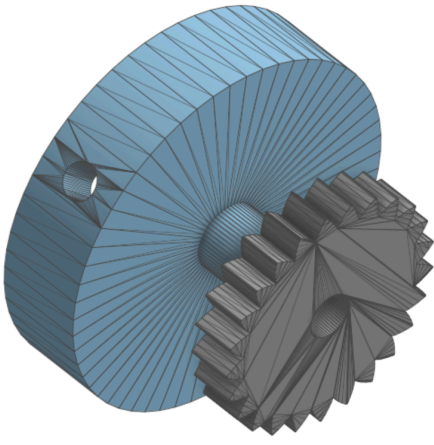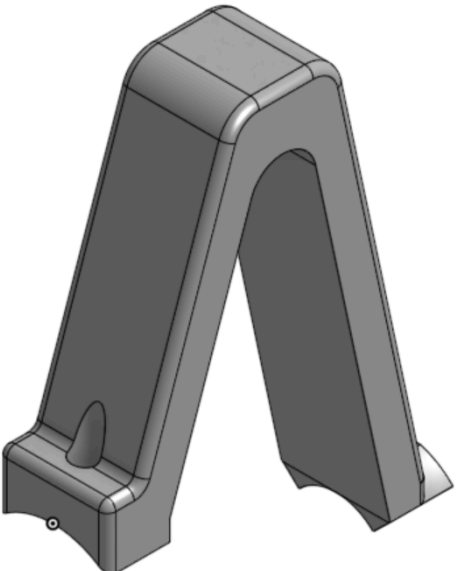| P_union_superior (v1)	
Zona de la palanca donde se ubican los switches y los leds. Permite la regulación de altura y rotación de mango. Link: https://cad.onshape.com/documents/e 227e86888257dc4c6b97535/w/28939 abc9edbdbd3414ac3fe/e/0bb11ebb1a 3570102df3bdb7?renderMode=0&ui State=68faccc3e437c31596e46676	

P_rotador_mango (v1)	
Une la palanca y el mango. Permite la rotación de mango. Link: https://cad.onshape.com/documents/7d2f22928c483819d20c5e3c/w/b9eb8ec4634620f00a2cbebe/e/34b27d08f3bdd8d822e492ca?renderMode=0&uiState=68faca9fddfb709123d64a47	

P_mango (v1)	
Permite rotación. Link: https://cad.onshape.com/documents/af7af84edcc4210f90f5378e/w/b941605ff2f3a997c7821142/e/30602ade613951220c3a4cd7?renderMode=0&uiState=68face473eaf2a489c943e0c	

P_cobertor (v1)	
Crea un agarre suave y ergonómico Link: https://cad.onshape.com/documents/b78cc6f91561b2d188f7f562/w/9ff4459ed0ff59a79d59c498/e/2f46d9a5d931a0cf177a3091?renderMode=0&uiState=68fad6ffddfb709123d66497	

Partes acoplamiento al eje

A_tapa (v1)	
Personalizado al eje recubierto de la rueda Link: https://cad.onshape.com/documents/a5c98efa6c071a4eebbc048e/w/3d317df3e005d84f7e47620e/e/20bd107c268293152c4c139c	

A_garra (v1)	
Asegura la tapa apoyándose del eje metálico interior de la rueda Link: https://cad.onshape.com/documents/965c7bbaa5092d47b4f74c1a/w/ca38252d5423931be1847231/e/5ad22a763afce963306b1131	