

# cyber champs

THE ART OF  
BIONIC SPORTS

**CYBER CHAMPS  
CONCEPT ART BOOK**

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STUDENT

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ADVISOR

## Synopsis

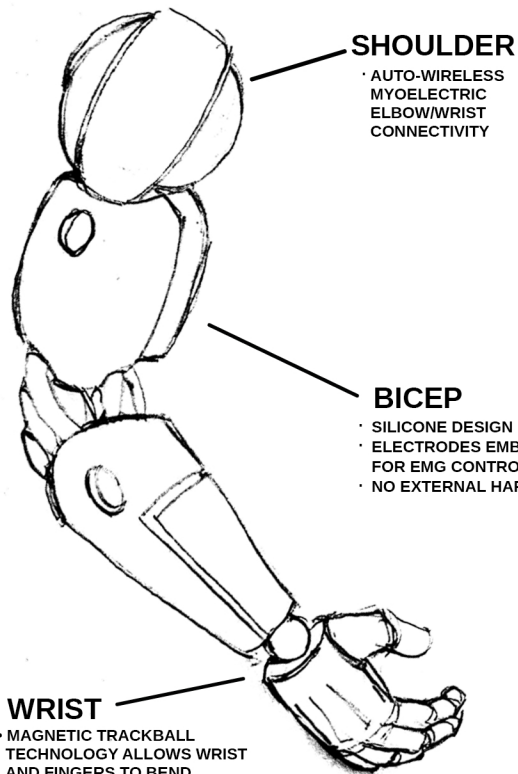
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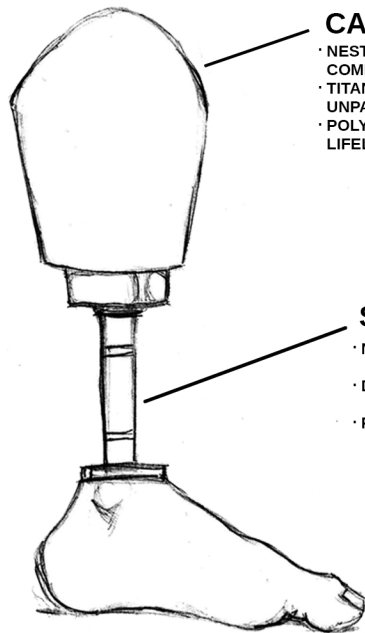
**Cyber Champs** *Concept Art Book* examines the idea of a world where athletics and cybernetics are interchangeable. There is a widespread interest in robots and robotically enhanced individuals in entertainment. Television shows and movies like the Terminator, Star Wars and the Blade Runner franchises, have always involved standout characters who were either complete androids or robots (Robocop, C-3PO, Steve Austin, etc.). Comic book franchises such as the Avengers & Justice League included strong supporting characters such as the Vision and Cyborg, which were prominently noted within their respective universes.

The target audience is the people who enjoy entertainment featuring robots. Science fiction fans and fans of sports also would find this project appealing. I believe people who have disabilities may find some interest also. The reason being that those who wear prosthetic devices may find inspiration in seeing an athlete performing with artificial limbs surfing, or dunking a basketball, or hitting a ball. Some of the characters will vary in age, gender and ethnic background, which will appeal to all viewers.

It would also bring awareness to how prosthetics or enhanced limbs can affect the lives of those with disabilities. This includes artificial legs and arms for people who have had amputations due to conditions such as cancer, diabetes, or injury. Those also born without some extremities can relate as well.

Lastly, I want to complete this because I've always have had an interest in robots and cyborgs.





### **CALF**

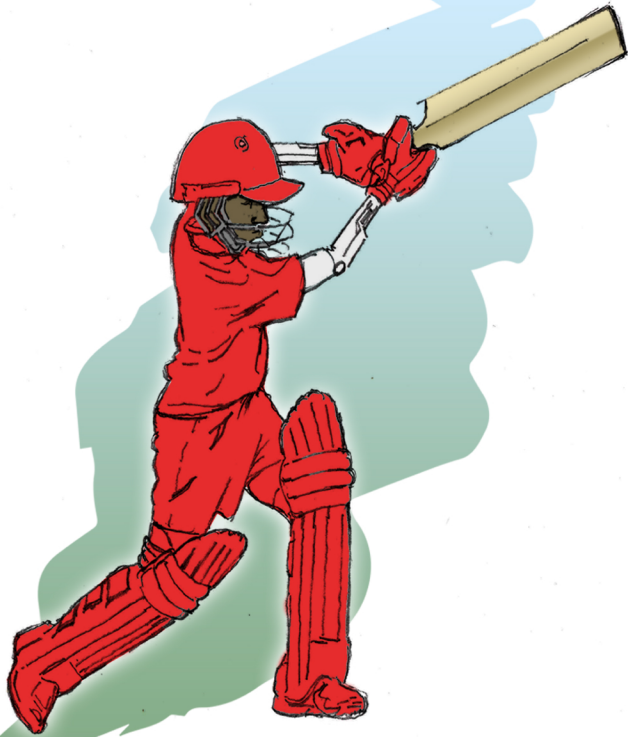
- NEST PROVIDES SECURE, COMFORTABLE FIT
- TITANIUM STEEL ANKLE FOR UNPARALLELED STRENGTH
- POLY SKIN FOR NATURAL, LIFELIKE APPEARANCE

### **SHIN**

- NEST FOR CALF PROVIDES SECURE, COMFORTABLE FIT
- DURABLE CARBON STEEL FRAME FOR UNPARALLELED STRENGTH
- REALISTIC POLY SKIN FOR A NATURAL, LIFELIKE APPEARANCE

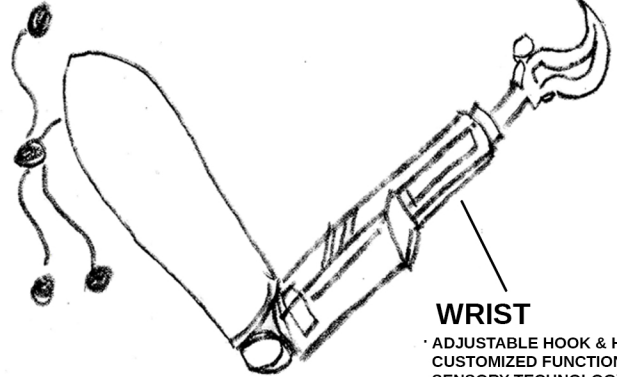
### **SOLE**

- MEGA-FOAM DURABLE ON ALL SURFACES
- RESISTS WEAR, TEAR, AND ABRASION
- FLEXIBLE AND COMFORTABLE



### HAND · HOOK

- 100% STAINLESS STEEL FRAME FOR DURABILITY



### WRIST

- ADJUSTABLE HOOK & HAND FOR CUSTOMIZED FUNCTIONALITY
- SENSORY TECHNOLOGY PROVIDES INTUITIVE CONTROL & RESPONSIVENESS

### ELBOW

- 6 EASY-TO-SELECT GRIPS
- LIGHT, SOUNDS & VIBRATION STATUS MONITOR
- FREEZE MODE FOR STATIC POSITION
- RESPONDS TO NEURAL SIGNALS



## SHOULDER

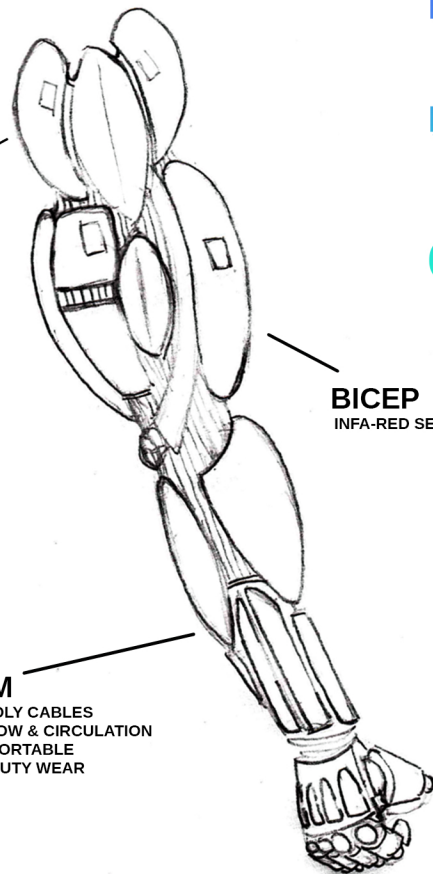
- IMPACT-RESISTANT ARM SLEEVES
- OUTER SHELL GUARDS AGAINST SCRAPES, BUMPS, AND BRUISES

## BICEP

INFA-RED SENSOR

## FOREARM

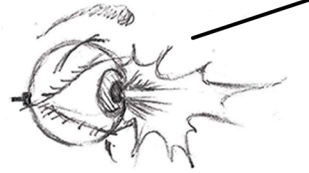
- LIGHTWEIGHT POLY CABLES PROMOTE AIRFLOW & CIRCULATION
- FLEXIBLE, COMFORTABLE FIT FOR HEAVY DUTY WEAR





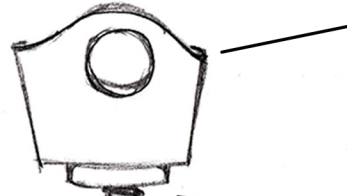
## EYEBALL

- GLARE RESISTANT FOR CLEAR VIEWING
- AUTO DUST & DIRT CLEANER FOR ALWAYS-PRISTINE VISION
- NIGHT VISION MODE FOR ENHANCED LOW-LIGHT PERFORMANCE
- ADJUSTABLE & AUTO-FOCUS FOR A PERSONALIZED FIT



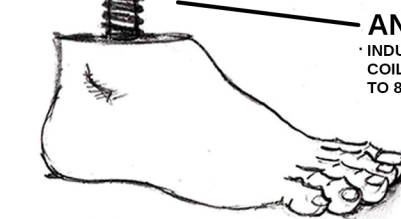
## SHIN

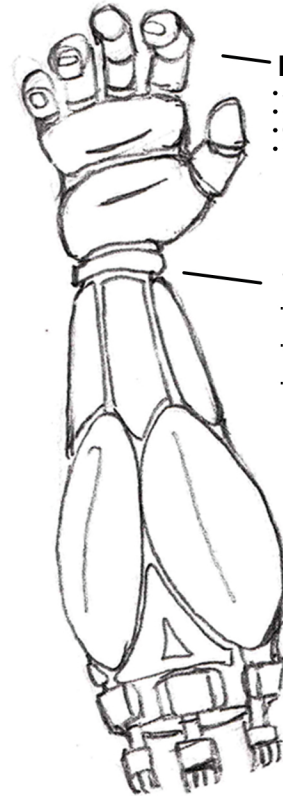
- COMFY POLYMER SURFA
- SENSOR SENSITIVE TO HEAT, HUMIDITY AND PRESSURE



## ANKLE

- INDUSTRIAL-STRENGTH COIL HOLDS WEIGHT UP TO 800 LBS





### FINGERS

- SLIP-PROOF EXTRA GRIP FINGERTIPS
- ENHANCED DEXTERITY AND CONTROL
- COMFORTABLE, BREATHABLE MATERIAL
- PROTECTS HANDS FROM ABRASIONS

### WRIST

- CONTROL ARM FUNCTIONS WITH FOOT MOVEMENTS
- UP TO 2 IMUS CAN BE USED
- IMUS SEALED AND WATERPROOF
- CHARGES WITH WIRELESS PAD

### ELBOW

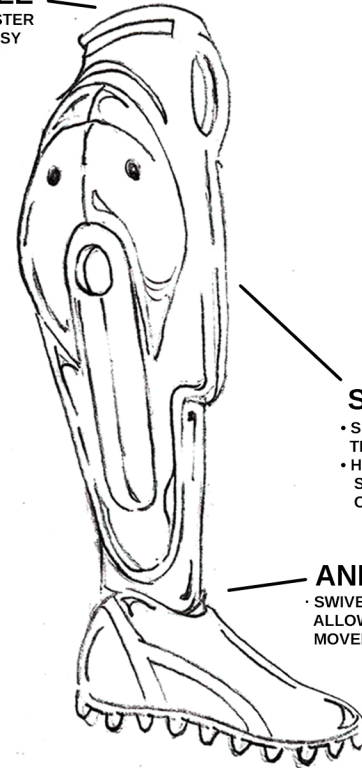
- CLAMP SENSORS DETECT ELECTRICAL IMPULSES FROM EXISTING MUSCLES





### KNEE

- BOOT-LIKE HOLSTER  
ALLOWS FOR EASY  
SLIP IN & OUT



### SHIN

- SHOCK-RESISTANT  
TITANIUM SHELL
- HEAT-EXHAUST FAN CORE  
SYSTEM PREVENTS  
OVERHEATING

### ANKLE

- SWIVEL FOOT SENSOR  
ALLOWS SEAMLESS  
MOVEMENT



**KNEE SOCKET**

- CUSHIONED INTERIOR TO ABSORB WEIGHT UP TO 350 LBS
- STEEL SHELL ON SHIN SUPPORT DELIVERS FIRM, RELIABLE STRUCTURE
- DESIGNED TO REDUCE STRAIN AND FATIGUE ON YOUR KNEES
- ENGINEERED FOR MAXIMUM MOBILITY AND FREEDOM OF MOVEMENT



**SHIN**

- ANKLE JOINT WITH FRICTION BRAKE,
- MONOCENTRIC WITH SAFETY ADJUSTABLE LOCK



**FOOT**

- POLYMER CASING WITH MEMORY FOAM TECHNOLOGY SUITABLE FOR ALL FOOTWEAR



### HAND

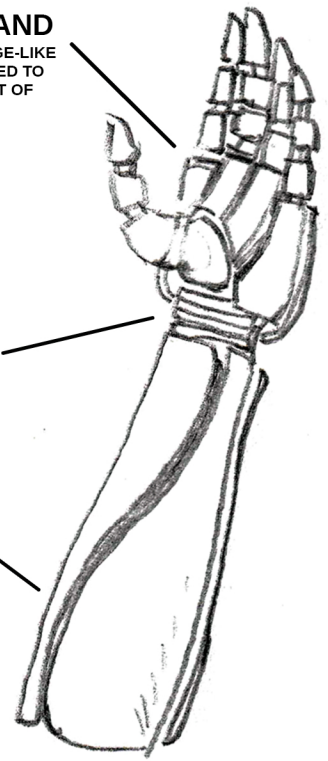
- CUSTOM-FITTED CAGE-LIKE STRUCTURE DESIGNED TO HARNESS MOVEMENT OF PIP FINGER JOINTS

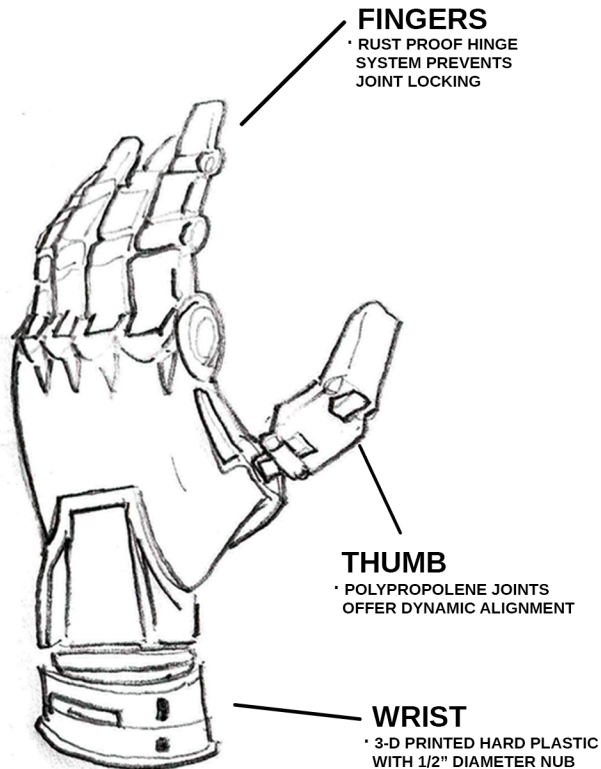
### WRIST

- WATERPROOF POLY RUBBER COIL TUBE COVERS CIRCUITRY

### FOREARM

- SILICONE EXTERIOR SIMULATES SKIN





**FINGERS**

- RUST PROOF HINGE SYSTEM PREVENTS JOINT LOCKING

**THUMB**

- POLYPROPYLENE JOINTS OFFER DYNAMIC ALIGNMENT

**WRIST**

- 3-D PRINTED HARD PLASTIC WITH 1/2" DIAMETER NUB



### ELBOW

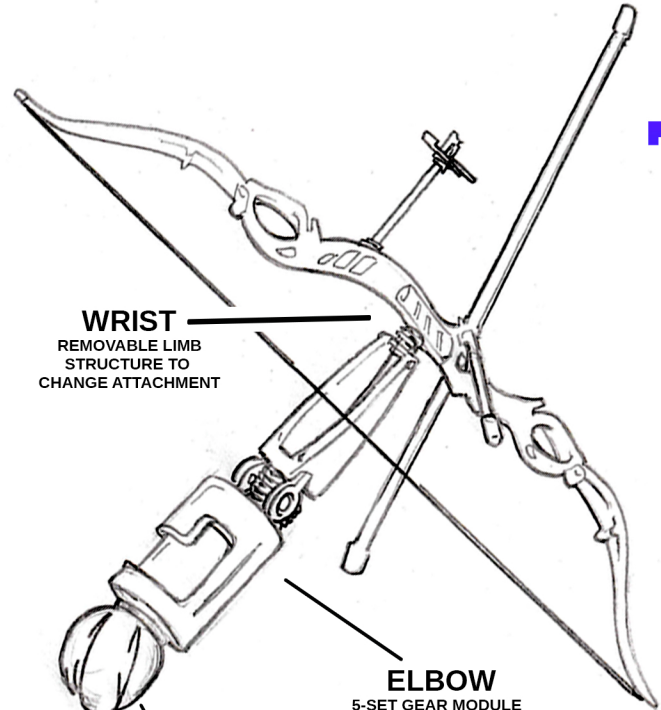
PROVIDES LOCKING POSITIONS AND ACCOMMODATES A LIFT ASSIST UNIT ON EITHER LEFT OR RIGHT SIDE

### FOREARM

3-D PRINTED FRAME SYSTEM PROVIDES EASY EXPAND & CONTRACTION

### HAND

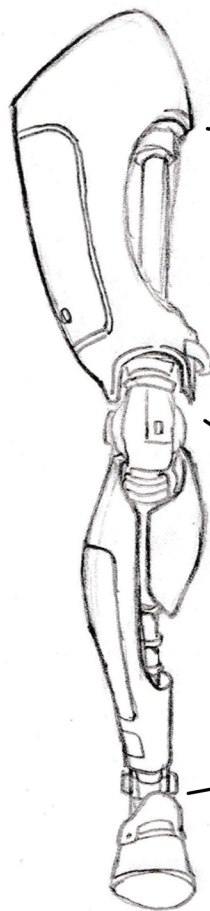
POLYURETHANE FOAM COVERING OFFERS EASY GRIP FOR HOLDING OBJECTS



**WRIST**  
REMOVABLE LIMB  
STRUCTURE TO  
CHANGE ATTACHMENT

**ELBOW**  
5-SET GEAR MODULE  
SETUP GUARANTEES  
DEADBOLT LOCK

**SHOULDER**  
WIRELESS SENSOR  
DETECTS, HEAT & WEIGHT



### HIP

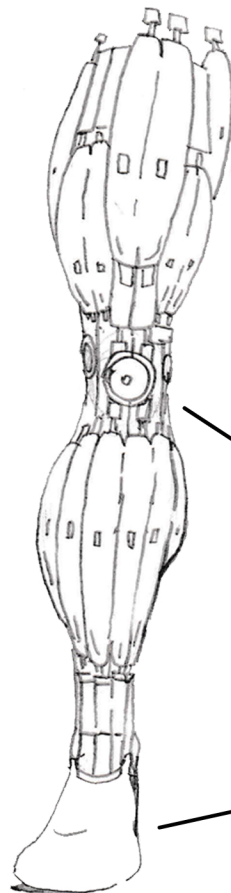
CARBON-LAYERED  
FEMORAL SYSTEMS  
OFFER FLEXIBILITY

### KNEE

- ADJUSTABLE EXTENSION ASSIST
- ADJUSTABLE FRICTION
- MULTIPLE ATTACHMENT OPTION

### ANKLE

WATERPROOF DI UNIT PROVIDES  
ADJUSTABLE TORSION AND VERTICAL  
SHOCK REDUCTION WITHOUT  
SACRIFICING BUILD HEIGHT



**HIP**

- HIGHLY STABLE PTFE
- HGH WEAR RESISTANCE

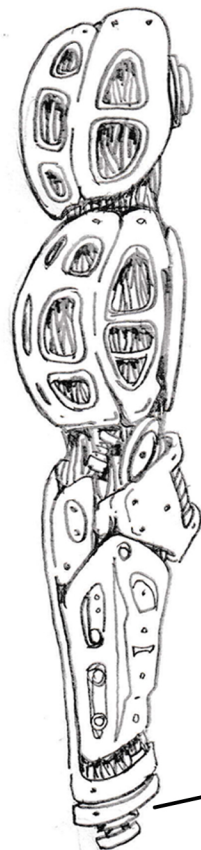
**KNEE**

- VACUUM INTEGRATED ANTI-SUSPENSION SYSTEM

**FOOT SOCK**

- RESIN-COATED POLY CONSTRUCTION
- MAINTAINS OPTIMUM HEIGHT FOR INTENSE TRAINING & PERFORMANCE





## SHOULDER

- CLEAR ARMOR PANES
- SELF-ADJUSTABLE CARBON STEEL SHELL

## TRICEP

- ANTI-FRICTION MODULE
- WIRE GLOW SYSTEM FOR SAFETY/DEFENSE

## WRIST

- 1/2 IN. DIAMETER CERAMIC STUD
- RELIABLE CONSTRUCTION
- GRIPPING FORCE EXCEED 100 LBS
- TRIPLE SWIVEL/CABLE CLEAT SYSTEM

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