

My artifact is on how computer science has enhanced technology in football from many new equipment parts the biggest one is the new technology in helmets and preventing more causes of concussions with lots of more protection for your head

2A. My computing innovation that is represented by my computational artifact is How technology is enhancing new and more things to help in football when it comes to getting concussions. Computers are helping us by understanding how head injuries happen on the field and helping us understand them more My artifact included with this has a graph on how the amount of injuries to the head are increasing every year in 2015 the concussion averager went up 58% from last seasons total and 18% from over the 4 year average in the meeting close to DC in the hyatt regency hotel conference room they discussed the topics of what they are gonna do with the concussion problem and how it is increasing by year.

2B. I used a website called google drawing to create my artifact so what i did is get many images from many different sources and combined them and used as much evidence as i could to help me understand the growth in what my artifact has done and why it is so important in our society while choosing pictures off the internet i also looked up articles to help me understand how computers are enhancing the safety for football players i used a couple of images with evidence about concussions and the growth in how they are happening more than ever and how all engineers and more people are scrambling to find better ways to try and prevent concussions I found graphs that showed the data about how many concussions are happening throughout a season and where they frequently happen more

2C. *The impact that computers has had on the safety of football players is huge by them inventing and finding new ways to protect and try and prevent head injuries from happening. We have also found a way to simulate how much G force is generated when your head is impacted and how much is needed to actually cause a injury to the head "Head injury expert Kim Gorgens, a neuropsychologist at the University of Denver (DU), says that most concussions deliver 95 g's to the human body upon impact. G-force is a unit of force equal to the force exerted by gravity. In addition, the average football player receives 103 g's when hit during a game. In comparison, the average g-force experienced by military fighter pilots is nine g's."*

2D. *The kind of data that the Computer technology with football would work with would be mainly visual representation with calculating how to prevent more head injuries by enhancing new equipment that will prevent head injuries with one invention that they made was a sensor system you can put in your helmet and it calculates when an amount of G Force is generated to cause a concussion which then it alerts a wireless remote saying the specific helmet with the sensor the player may have a concussion or are concussed another invention created was the all new vicis pro helmet that can cost you up to \$2,000 dollars but the all new helmet has brand new technology and is one of*

the safest helmets to come out ever with them trying new technology created and simulated by computer technology they have created a helmet that absorbs almost all of the contact in a head collision.

2E. <https://operations.nfl.com/the-game/technology/>
<https://www.bing.com/?toHttps=1&redig=865CF11AC5A2489A995606D1EAB57878>
<https://vicis.co/>