



Educating for Beyond the Horizon

Futures in Aerospace



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The Path to the Future

- **Yesterday – Today – Tomorrow**
- **Educating for the Future - Learn by Doing**
- **Parting Thought**



Understand the Lessons of History



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<http://www.nationalmuseum.af.mil/Upcoming/Photos/igphoto/2000571709/>



<http://www.nationalmuseum.af.mil/Upcoming/Photos/igphoto>



<https://en.wikipedia.org/wiki/Mustang#/media/File:Mustanggelding.jpg>

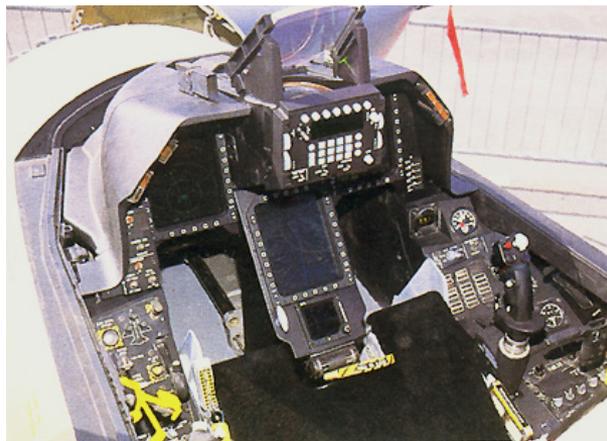


Understand the Lessons of History



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F-104
Data



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F-16
Information



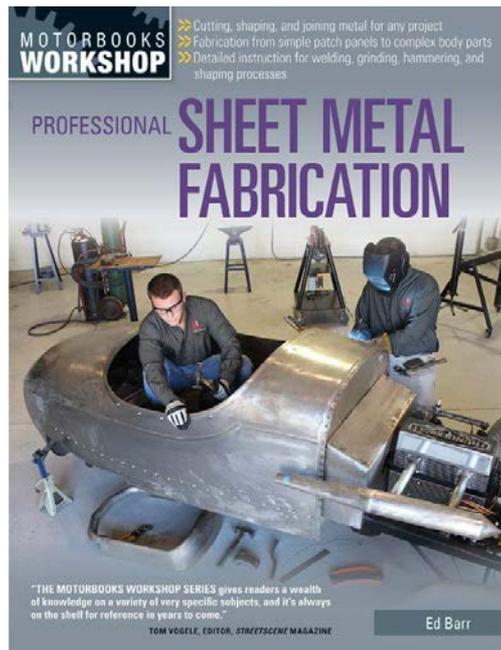
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F-35
Knowledge





Yesterday



<https://www.quartoknows.com/books/9780760344927/Professional-Sheet-Metal-Fabrication.html>

Labor Intensive – Limited by Materials and Tools

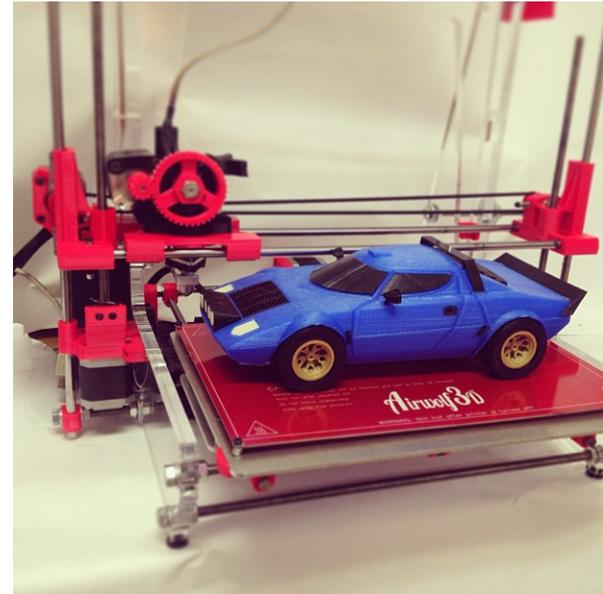




Tomorrow



<https://www.dezeen.com/2016/09/30/gravity-sketch-vr-allows-designers-to-create-and-alter-3d-models-in-mid-air/>



<https://airwolf3d.com/2013/02/25/3d-print-an-xtra-large-lancia-stratos/>

VR Computer Aided Design & Additive Manufacturing





Hands On – Learn By Doing



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Teach Through Failure - Without Fear!





Educating for Tomorrow

- **More and Different Technologies Early**
- **Team Work**
- **Diversity**

And Don't Forget





Don't Forget the Arts



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https://vignette.wikia.nocookie.net/starwars/images/9/9e/Naboo_Royal_Starship.png/revision/latest?cb=20161019065403

Sometime Art Imitates Science





Don't Forget the Arts



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Some things have a Beauty Only a Few Can See!





Questions



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Have Fun!



