A LITTLE BIT OF HISTORY IN STEAM (2001-2019)

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AGENDA

• Embraer High School
• Preparing Technicians
• Internships
• Engineering Specialization Program
• Mentorship
• Industrial Doctorate
• Final Comments
EMBRAER CONTINUOUS EVOLUTION

Achieving maturity and efficiency through the development of a rich portfolio of products and services.
SMARTER BY DESIGN

17.3% LOWER CONSUMPTION OVER CURRENT E190

New Interior
Enhanced PAX experience and more overhead bin volume

New Wing
More efficient, higher aspect ratio

Improved Avionics
45% more display

Aircraft Systems
Re-design to boost performance, reliability and maintenance costs

4th Gen Full Fly-by-Wire
Digital closed-loop control to improve flying qualities and fuel efficiency

New Engine
High-By-Pass Ratio, Geared Fan Engines

Landing Gear Door
Up to 1% fuel burn reduction

Fuselage
Extensive aerodynamic optimization to improve fuel efficiency
EDUCATION

The Embraer High Schools serve low-income students and students from the public school system.

960 students per year in schools

3,000 young graduates

+80% of students admitted to public universities in Brazil

+800 university scholarships for alumni

1st place at ENEM in Vale do Paraíba and Botucatu
Pre-Engineering
(since 2006)
PPE - Embraer Designer Program

Preparing technicians to become aeronautical designers.

151 professionals trained in 4 years of operation.
Definição de Conteúdo
Criação de material didático
Mentores Técnicos de Projetos
Realização de visitas técnicas
Professores

➢ 180 empregados participaram da construção do PPE
➢ Em sua maioria, profissionais
Carreira Y
Carga de 850 horas treinamento + 960 horas de estágio prático
Internship Program

Every young talent that appears in the universities of Brazil and worldwide is carefully watched and assessed so that one day they can be a part of Embraer.
TURMA 2

23892
Número de Inscritos para a turma 2, Fevereiro e Março de 2019

850
Participaram das dinâmicas

598
Finalistas para as Entrevistas com Gestores

288
Número de estagiários contratados em todas as unidades EMBRAER Brasil

6
Encontros Capacitação

288
Estagiários da Turma 2

Realização de Projeto de Estágio

Premiação de Projetos Destaque

BORN TO FLY

5º ENCONTRO DO PROGRAMA DE ESTÁGIO
Propósito, qual você?
“Desenvolver nossos estagiários significa ir além do apenas pensar no futuro, é agir no presente, respeitando o passado para que possamos concretizar nossos sonhos, e fazer história.”
Alexandre Mattos

OBRIGADO
14 de outubro de 2019
PEE - Engineering Specialization Program

Professional Master’s in aeronautical engineering, taught on company premises.

More than 1,300 engineers trained since 2001.
TECHNICAL MENTORSHIP PROGRAM

Involves all engineering areas.

Aimed at real technological problems, which can be solved in the short term.

DURATION 18 MONTHS

The last cycle was completed in 2017 with 105 pairs of mentors and mentees completing their studies.
DOUTORADO ACADÊMICO INDUSTRIAL

1. Desafios tecnológicos ➔ pesquisa aplicada, ➔ academia + empresa
2. Pesquisador formado ➔ atuar na empresa ou universidade
3. Empresa (tema + orientador industrial + complementação bolsa)

Em andamento:

• Manufatura ➔ Performance
• Inteligência Artificial ➔ planejamento manutenção de frota
• Imperfeições superficiais ➔ transição camada limite
• Engajamento Aéreo Cooperativo
FINAL COMMENTS

• Selection is key
• Full time dedication
• Learning by doing
• Partnerships are essential
• Involvement of experienced professionals
• High management support
• Mission + values (technology + education)
THANK YOU

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